

AD-A124 495

PLOTS OF CY71-79 DEMANDS AND RETURNS FOR A SAMPLE OF
SACRAMENTO ALC DO62 ITEMS(U) DECISION SYSTEMS
BEAVERCREEK OH W S DEMMY MAY 81 WP-81-01

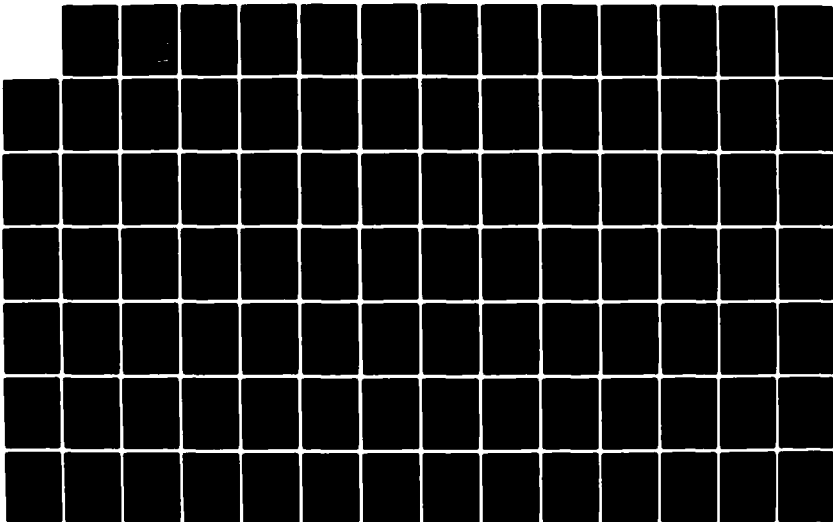
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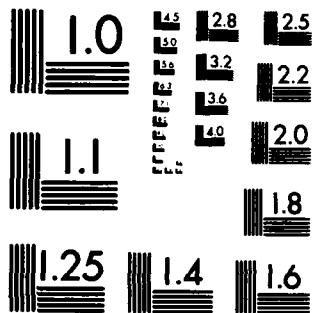
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Plots of CY71-79 Demands and Returns
for
a Sample of Sacramento ALC D062 Items

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by
W. Steven Demmy

May 1981

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WP-81-01
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DOD LOGISTICS STUDY SUMMARY		1. LD NO.		2. DATE OF SUMMARY	
3. TITLE AND ACRONYM <i>Plots of CY 71-79 Demands and Returns for a Sample of Sacramento ALC DO 62 Items</i>					
4. STATUS <i>COMPLETED</i>		5. STARTING DATE <i>10/JULY 80</i>		6. COMPLETION DATE <i>May 1981</i>	
7. ORGANIZATION REPORT NO.		8. DLSIE SEARCH NO.		9. CONTRACT NO. <i>F33600-80-C-0530</i>	
10. TYPE STUDY <i>CONTRACT</i>		11. TIME FRAME		12. COST <i>35000</i>	
13. SECURITY CLASS <i>Unclassified</i>		14. DISTRIBUTION LIMITATION <i>Unlimited</i>		15. MAN-YEAR EFFORT <i>1 man year</i>	
16. STUDY SPONSOR <i>LOR</i>			17. PERFORMING ORGANIZATION <i>Decision Systems 2125 Crystal Marie Drive Beavercreek, Ohio 45431</i>		
RESPONSIBLE INDIVIDUAL			RESPONSIBLE INDIVIDUAL <i>W. Steven Demmy</i>		
AUTOVON			AUTOVON		
COMMERCIAL NO.			COMMERCIAL NO. <i>1-513-426-8515</i>		
18. ABSTRACT (UNCLASSIFIED) <i>This paper presents plots of demands and returns for 100 items managed under the Economic Order. Quantity Buy Computation System (DO 62) at Sacramento Air Logistics Center for the period CY 71-79. Plots of the actual and predicted flying activity of related aircraft are also presented.</i>					
19. CONCLUSIONS (UNCLASSIFIED)					
20. RECOMMENDATIONS (UNCLASSIFIED)					
21. IMPLEMENTING ACTIONS (UNCLASSIFIED)					

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. <i>AD-A124495</i>	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Plots of CY71-79 Demands and Returns for a Sample of Sacramento ALC D062 Items ,		5. TYPE OF REPORT & PERIOD COVERED INTERIM <i>rept.</i>
7. AUTHOR(s) W. Steven Demmy		6. PERFORMING ORG. REPORT NUMBER WP-81-01
9. PERFORMING ORGANIZATION NAME AND ADDRESS Decision Systems 2125 Crystal Marie Drive Beavercreek, Ohio 45431		8. CONTRACT OR GRANT NUMBER(s) F33600-80-R-0314
11. CONTROLLING OFFICE NAME AND ADDRESS Directorate of Management Science HQ. AFLC/XRS Wright Patterson AFB, Ohio 45433		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE May 1981
		13. NUMBER OF PAGES
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)		
<div style="border: 1px solid black; padding: 5px; text-align: center;"> This document has been approved for public release and sale; its distribution is unlimited. </div>		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) D062, EOQ, PLOTS, DEMAND		
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Introduction:

If the underlying pattern of demands is known, forecasting is an easy task. For example, if it is known that demands will increase at the rate of 20 units a month, it is easy to compute the number of units to be demanded one month, two months, or any number of months in the future. Further, if it is known that a design change will result in a decrease in the failure activity for specific items of, say, 10 units per month, it is easy to combine this fact with the trend projections to come up with an accurate estimator of future demands. As another example, if it is known that demands are proportional to flying activity, and if it is also known that flying activity is going to double in a coming period, one would simply double the forecasted rate for that period.

Unfortunately, in real world systems the underlying pattern of demand is only known by hindsight. Although hindsight is completely accurate, it is not useful as a forecasting tool. The challenge to designers of large scale inventory systems is to develop forecasting methods which utilize limited samples of demand information to obtain relatively accurate estimates of future demands.

In this paper, we present plots of the demands and returns for one hundred D062 items managed by the Sacramento Air Logistics Center (ALC), during the 1970's. The specific items presented

are a very unscientific sample. The plots were developed as a by-product of a separate study, and consequently may be unrepresentative of the demand histories for Air Force Logistics Command D062 items as a whole. However, the author has observed many similar D062 item plots from a number of other samples, and it is believed that the set of items presented here does provide a representative picture of the demand and returns patterns to be found in the history records of the D062 system. In the paper, we do not attempt to identify any common pattern among the items presented. Rather, we present this information so that other analysts may test their own ideas concerning the patterns of demands which characterize AFLC EOQ items.

Data Sources:

In the appendices of this report, we present plots of demands and returns for 100 D062 items. We also present plots of the flying programs for the primary aircraft supported by each of these items. In the following paragraphs we discuss the sources from which this data was obtained.

Aircraft Flying Programs. The D062 System maintains a weapon code for each EOQ item. This code identifies the primary aircraft supported by the specific EOQ item. Since it is often assumed that demand is proportional to flying activity, we have grouped

the items presented in this paper by weapon code, and we present plots of both the item demand activity and the associated aircraft program activity during the 1970s. Items are also grouped by demand activity class. In this paper, we define two demand activity classes. We refer to items which had average demands in CY71-72 in excess of \$5000/yr as "high activity" items, while items with less than \$5000/yr of demands in CY71-72 are called "low demand" items. For example, Appendix A presents plots of program activity for the F104 aircraft and for all F104 items in our sample which had demands during CY71-72 that exceeded \$5000/yr. Appendices B, C, and D present similar plots for high activity items associated with F/FB111, C121, and T33/F-80 aircraft, respectively. Finally, appendices E through I present similar plots for "low activity" items; i.e. items with average annual demands between \$1/yr and \$5000/yr during the CY71-72 interval.

Within each Appendix, we first present plots of the observed and predicted aircraft flying program associated with the given item set. Actual Program hours were obtained from the G033J system from output product A-G033J-PAR-M1-MMO. This information was collected for the interval July 1970 through June 1979. Predictions of flying program activity which were made each quarter throughout the 1970s were obtained from the K004 data system, using report K004.D81A RCS: NR-LOG-LR(AR)7208. Reference 2 presents the detailed data for actual and predicted program

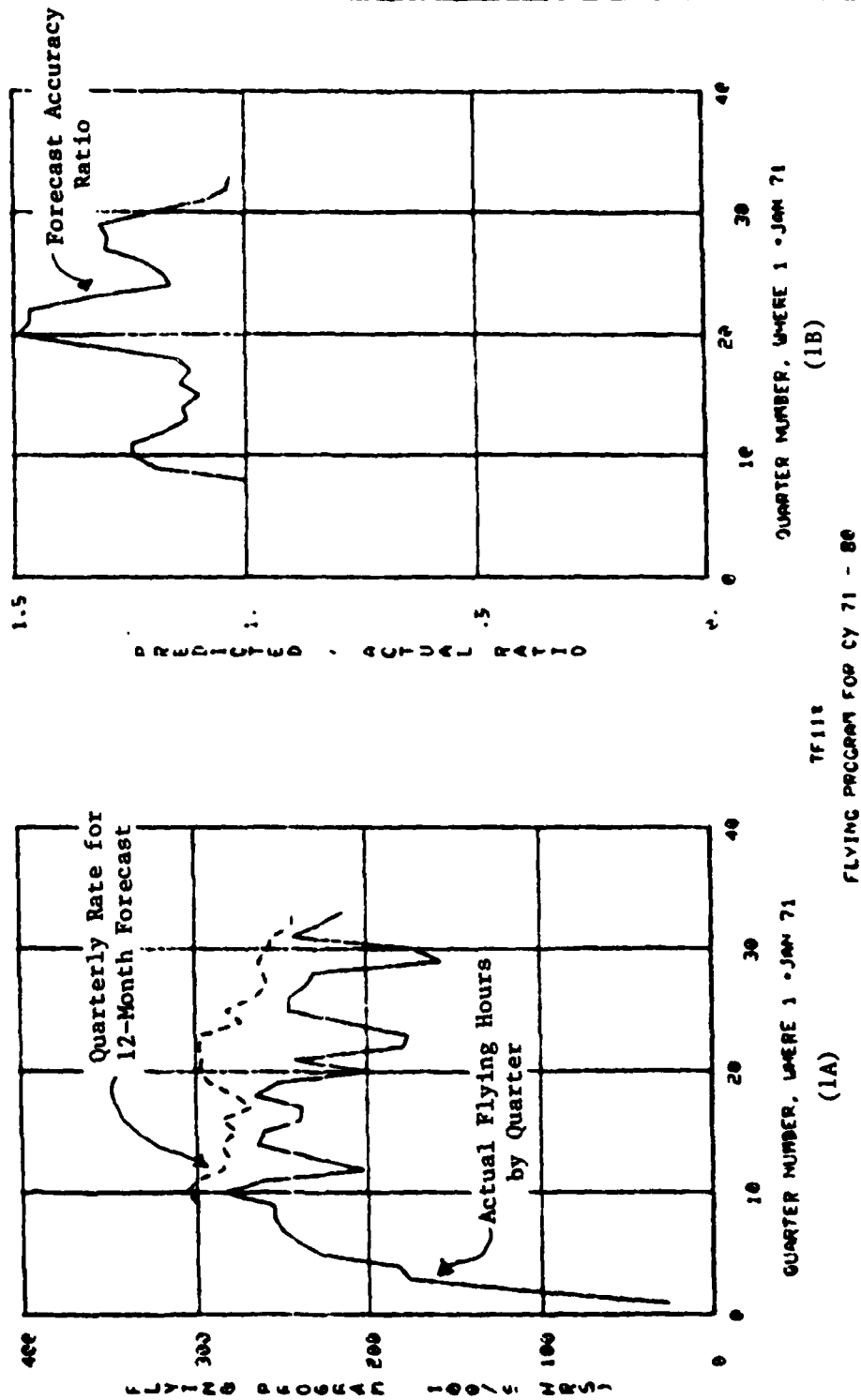
activity collected in this process. In addition, Reference 2 presents plots of both the actual and predicted program activity, and plots of the ratio of predicted to actual flying programs for each aircraft associated with the INSSIM Data Bank. We refer to this latter ratio as the "forecast accuracy ratio." The plots of program activity presented in this paper were obtained directly from this reference.

Figure 1 illustrates the flying program plots presented in the appendices. For example, Figure 1A plots both the actual and predicted F/FB111 flying programs for the interval CY71-79, while Figure 1B plots the ratio of predicted to actual program activity. Since predicted program activity was not available prior to CY73, we set the forecast accuracy ratio equal to 1.0 for the interval CY71-73. For this specific aircraft, predicted flying programs tended to consistently exceed the actual programs which were eventually flown. This is not always the case, however. Reference 3 presents an analysis of flying program prediction accuracy observed during the CY73-79 interval.

D062 Demand Data:

The item data presented in this paper was obtained from two samples of Sacramento ALC items obtained from the INSSIM Data Bank. This data bank currently contains demand histories for thousands of D062 items managed by the Sacramento, Oklahoma City and Warner

Figure 1. Comparisons of Actual and Predicted F/FB111 Flying Programs.



Note: Quarter 1 = Jan-Mar. 1971.

Robins ALCs for the interval CY71-79, a total of 38 quarters of demand data.

The INSSIM Data Bank was constructed over a period of years by AFLC/XRS by Mr. Fred Conway and Mr. Armin Rubbert. In building this data set, several problems were encountered regarding the availability of data in past years and the readability of the "old" tapes in the data bank. As a result, the following rules were adopted in building the historical data files:

1. Sales, Transfer, and FMS demands were combined to provide a single demand total per quarter.
2. Non-recurring demands were not available and, thus, were not included in the data bank records.
3. Sales returns and Transfer returns were combined to provide a single value for servicable returns by quarter.
4. Lead time and inventory management codes were obtained from the records corresponding to the first quarter of FY75.
5. On-hand and on-order assets were obtained from the oldest available D062 stock status record. This corresponded to the first quarter of FY74.

6. Items with Special Codes of C, D, E, I, M, X, U, or N in any fiscal year were deleted from the file. Requirements for items with these codes are computed using manual methods, and consequently were not candidates for inclusion in the INSSIM Data Bank.

7. Items with incomplete demand histories were also deleted from the Data Bank. That is, an item was included in the INSSIM Data Bank only if demand history records were present in the D062 system for each of the fiscal years in the interval CY71-79. Hence, this rule eliminates from consideration all items which either enter or leave a specific ALC's data files during the CY71-79 interval, or which were transferred from one ALC to another during the interval. Items which were switched from management under the D062 computation system to the D041 system, or vice versa, would also be eliminated by this rule.

The Items in this Report:

In a search for improved forecasting methods, we constructed two item samples from the Sacramento ALC records in the EOQ Data Bank. We constructed two item samples; a high activity sample and a low activity sample. The specific rules used to construct these samples are as follows:

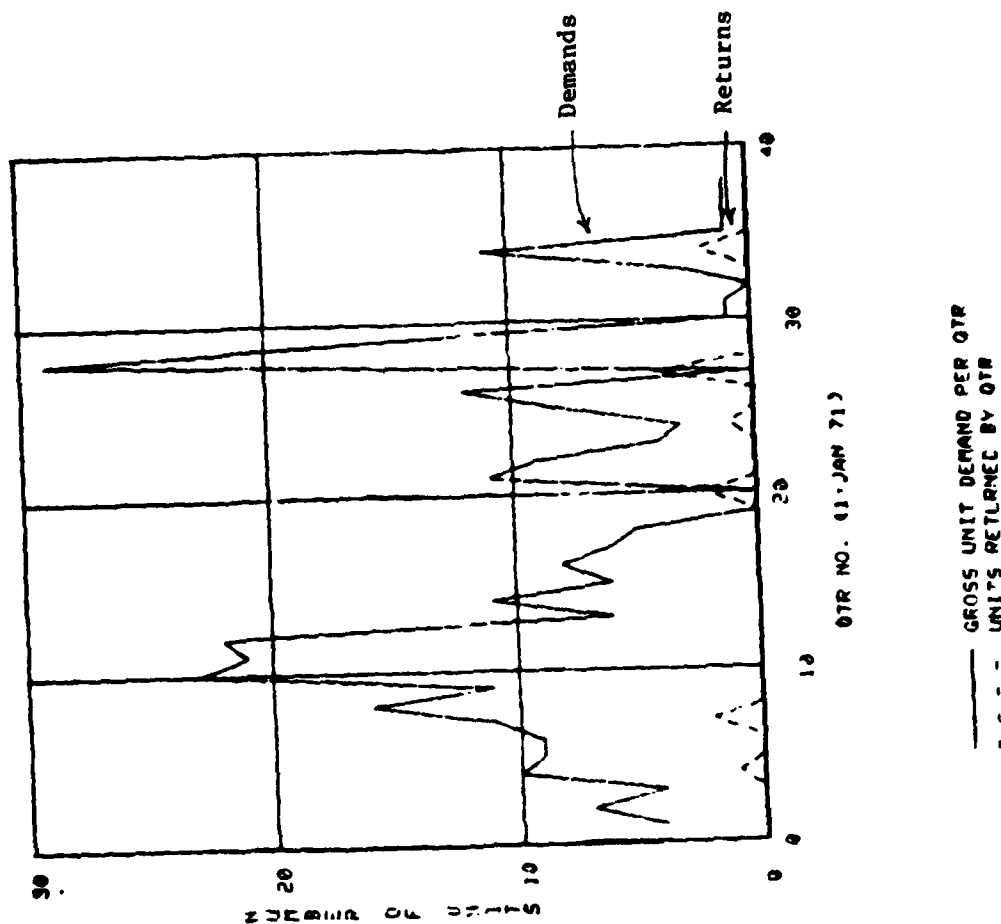
<u>Sample</u>	<u>Description</u>
SM·H	Items with average annual dollar demands for the CY71-72 interval in excess of \$5000/yr.
SM·L	Items with average annual dollar demands in CY71-72 that exceed \$1/yr, but which are less than \$5000/yr. Only 50% of the items that met this criteria were included in our output file.

Note that this data selection rule ensured there was at least one unit of demand during the CY71-72 interval for all items included in each sample. Consequently, our sample does not include any items which had no demands during the CY71-72 interval but which may have had demands in subsequent periods. New items which entered the Air Force inventory after the end of CY72 would thus be excluded from our data sample.

A total of 630 items were obtained for the SM·H data file, and a total of 6601 items were obtained for the SM·L data file. The plots presented in this paper were obtained from the first 50 items associated with each data file. For example, Figure 2

presents a plot of the demands and returns for the first D062 item associated with the F/FB111 aircraft and item sample SM-H. In this figure the solid line represents the number of units demanded by quarter, while the dashed line represents the number of serviceable returns to the system. As another example, Figure 3 presents similar plots of the total demands and returns for the first F/FB111 item in the low activity sample SM-L.

As noted above, this paper presents an unscientific sample of 100 Sacramento D062 items. The characteristics of the individual items included in the sample are presented in Tables I and II. Table I presents the distribution of sample items by weapon code. As shown in Table I, the majority of items in this paper are associated with the F104 aircraft. The F104 was a major aircraft managed by Sacramento ALC at the beginning of the 1970s. Table II describes the distribution of the sample of items by Federal Stock Class (FSC). As shown in the table, several FSCs are represented, but FSC 1560--Aircraft Structural Components--is the most common category.



ITEM DATA

NO. 1
ALC SM 1055
PWC BJ 002265032
NINM EA
UM INTR-LETTE
NOUN 4
MGT 3242 2
PT2734 805.85
COST

DEMANDS	7	4	10	9	9	11	10
4	21	2	6	11	11	6	10
11	0	0	11	19	1	4	8
6	0	29	1	1	1	1	3
8	1	1	1	1	1	1	0
3	1	1	1	1	1	1	0

RETURNS	2	0	0	0	0	0	0
2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0

Figure 2. Demands and Returns for the First F/FB111 Item in Sample SM.H.

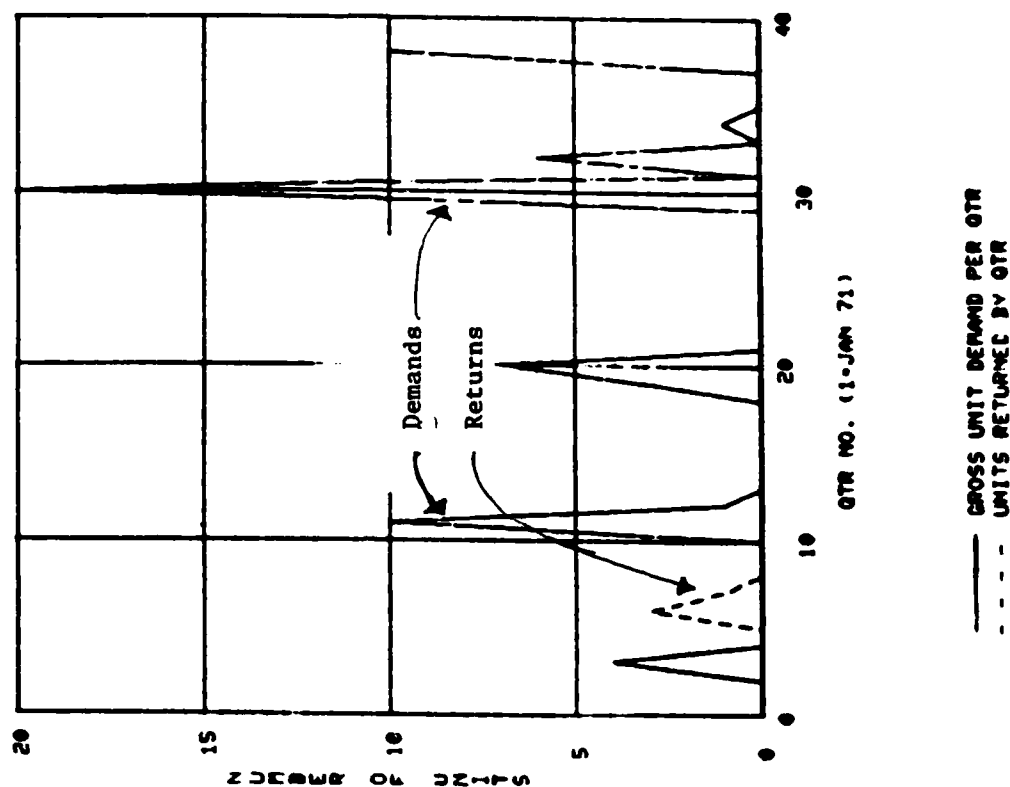


Figure 3. Demands and Returns for the First F/FB11 Item in Sample SM.L.

ITEM DATA	
NO.	24
ALC	SM
REC	DJ 1200
MTM	001193065
LN	EA
MOUN	CIRCUIT CD
ACT	2
PTGT34	324Z B
COST	31.20

[illegible]

Table I
Distribution of Sample Items by Weapon Code

<u>Code</u>	<u>Weapon</u>	Number of Items		
		<u>SM.H</u>	<u>SM.L</u>	<u>Total</u>
107W	M16 Atlas	--	13	13
3032	F104	10	23	33
324Z	F/FB111	21	9	30
941Z	A1 Sky Raider	--	1	1
955Z	C121	5	--	5
968Z	T33	<u>14</u>	<u>4</u>	<u>18</u>
Total		50	50	100

Table II

Distribution of Sample Items by Federal Stock Class

Federal Stock Class		Number of Items		
		<u>SM.H</u>	<u>SM.L</u>	<u>Total</u>
1005	Guns, Through 30 mm	--	1	1
1055	Launches, Pyrotechnic	1	--	1
1095	Miscellaneous Weapons	--	6	6
1270	Aircraft Gunnery Fire Control Components	7	16	23
1280	Aircraft Bombing Fire Control	--	4	4
1420	Guided Missile Components	--	1	1
1430	Guided Missile Remote Control Systems	1	5	6
1440	Lauchers, Guided Missile	--	6	6
1450	Guided Missile Handling and Servicing Equipment	--	2	2
1560	Aircraft Structural Components	<u>41</u>	<u>4</u>	<u>50</u>
		50	50	100

The Appendices:

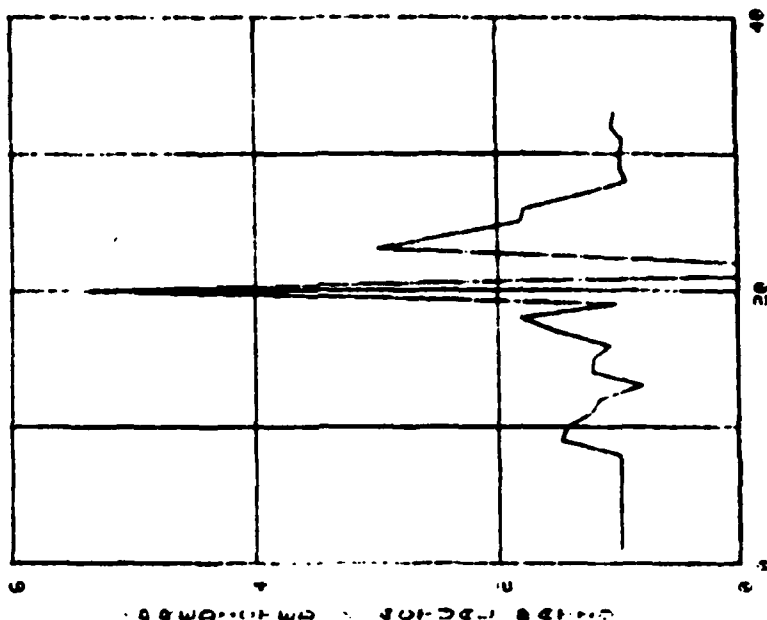
As noted above, the appendices to this paper present plots of program activity for individual aircraft, and the associated plots of EOQ demands and returns. For example, Appendix A presents a plot of the predicted and observed flying program activities for the F104 aircraft during the CY71-79 interval. This aircraft was phased out of the USAF inventory in the middle of the 1970's, but became a Foreign Military Sales system in the late 1970's. This explains the increase in both the predicted and actual program activity for this aircraft in the late 1970s. Following the plot of F104 program activities is the plot of all items from the SM-H sample which carried the aircraft code 303Z. As noted above, this code indicates that the item was used primarily in support of the F104 system. As seen in Table I, ten of the 50 SM-H items carried a weapon code of 303Z. Appendices B, C, and D present similar plots for SM-H items associated with the F/B111, C121 and T33/F-80, respectively. Next, Appendices E through I present similar plots of program activity and item demands associated with the first 50 items in sample SM-L. Finally, Appendix J presents the FORTRAN programs which may be used to generate the plots similar to those in this paper. These routines may be utilized with the CREATE Computing System at Wright-Patterson AFB. They require the use of Tektronics graphics terminal to produce the plots.

Summary:

If the patterns of EOQ demand activity are known, forecasting future item demands is a simple task. Unfortunately, determining an appropriate pattern is not easy. This paper presents plots of the demand and return activity for a number of AFLC EOQ items for the interval CY71-79. Plots of the predicted and observed flying program activity for associated aircraft are also presented. It is hoped that this information may be of value to analysts who seek to develop new pattern recognition and forecasting techniques.

References

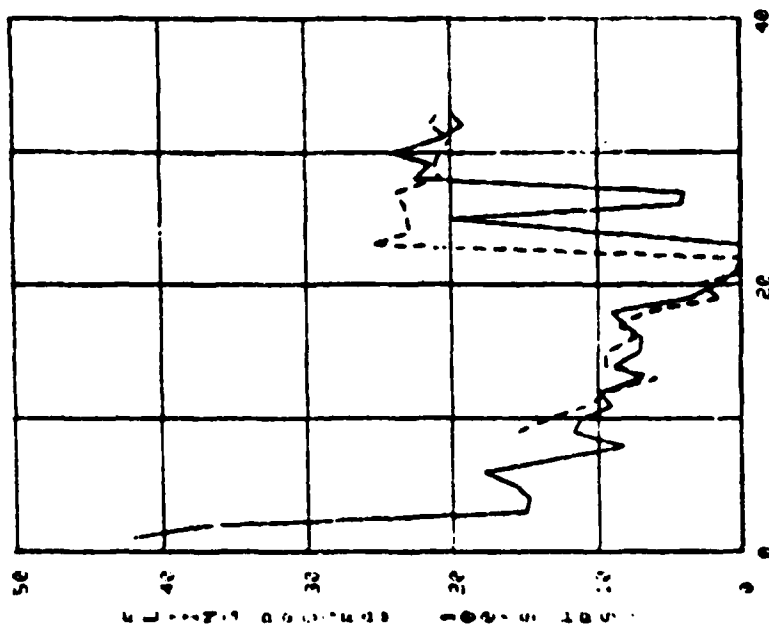
1. Demmy, W. Steven, Statistical Characteristics of Forecasting Techniques for D062 Economic Order Quantity Items, Technical Report 79-02, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, May 1979, 128 pp.
2. Demmy, W. Steven, Actual and Predicted Flying Programs for Selected USAF Aircraft for the Period July 1972-June 1979, Working Paper 80-01, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, June 1980, 54 pp.
3. Demmy, W. Steven, A Comparison of Forecasted and Actual Flying Programs for CY1973-1979, Working Paper WP-80-06, Decision Systems, 2125 Crystal Marie Drive, Beavercreek, Ohio 45431, October 1980, 44 pp.



QUARTER NUMBER, UHRE 1 - JAN 71

F104E

FLYING PROGRAM FOR CV 71 - 80



QUARTER NUMBER, UHRE 1 - JAN 71

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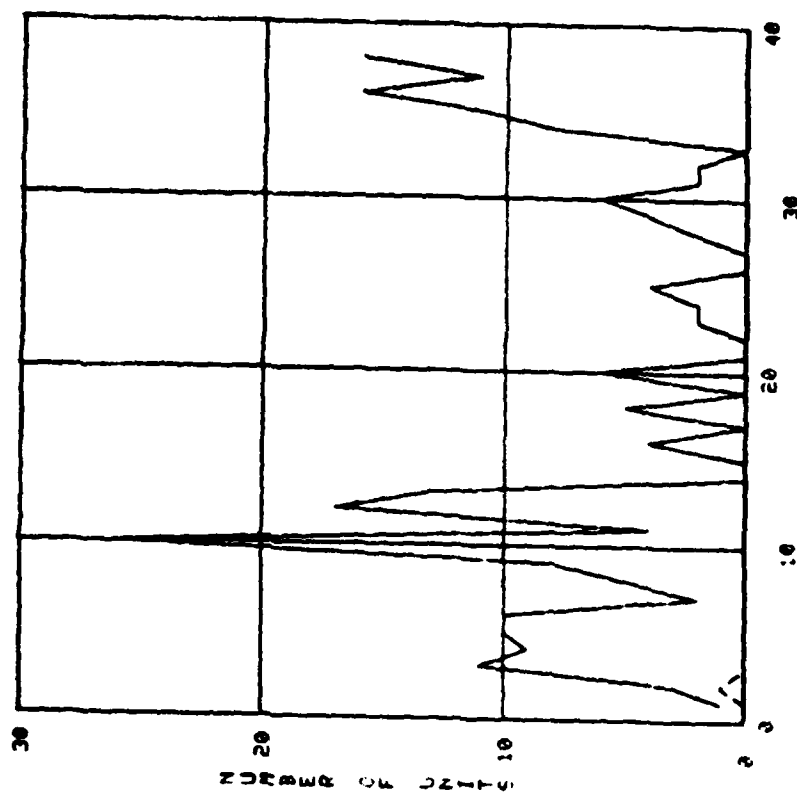
NO. 2
ALC 1270
WFC 007:167623
JF EA
VOLM CLASS CP-1
TST 2002
157 GD34
COST 31:10

DEMANDS

[illegible]

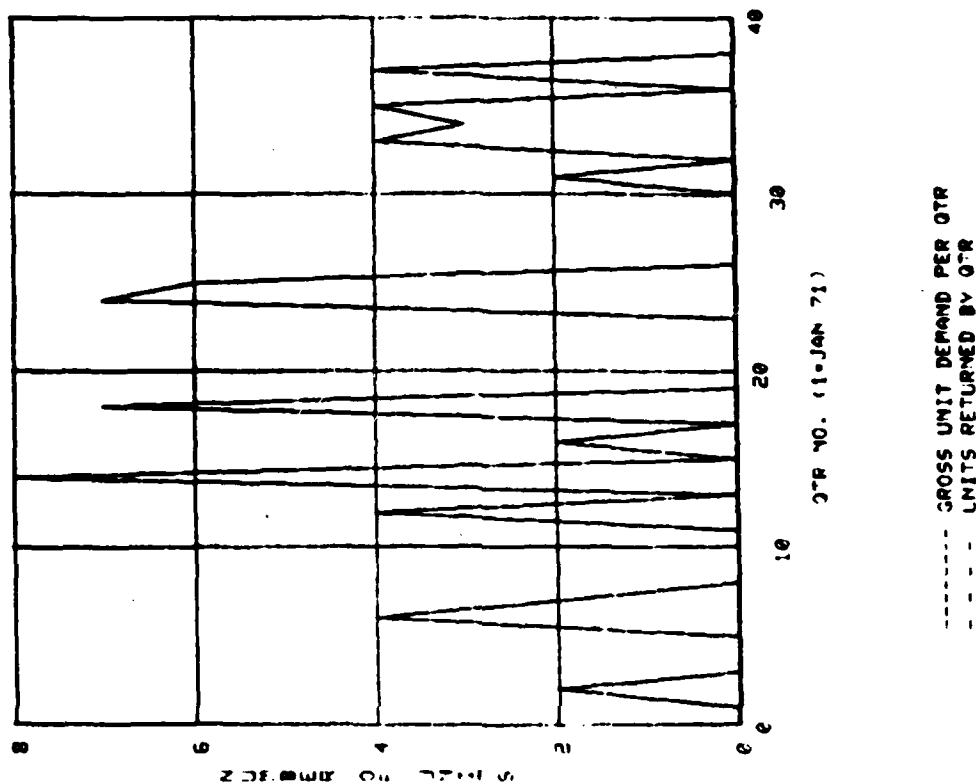
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CTQ NO. (1-JAN 71)

-----	GROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR



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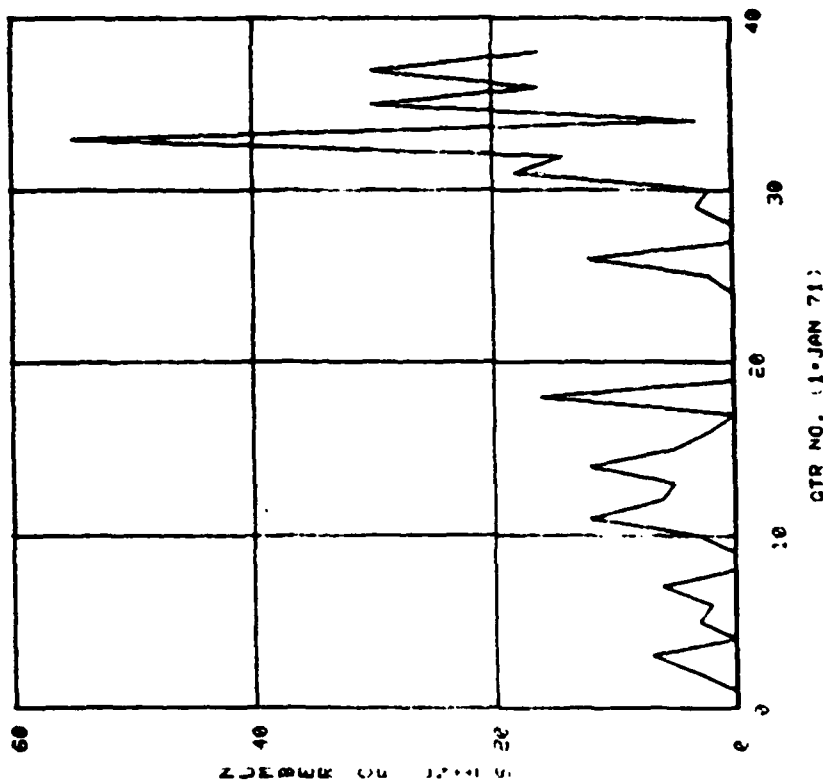
NO. 3
ALC 5M
MMC CB 1270
NIN 007949128
LP EA
NOUN AURAL ONE
PGT 2
PTGT34 3032 B
CCS- 256.50

DEMANDS

[illegible]

RETURNS

[illegible]



	GROSS UNIT DEMAND PER QTR	UNITS RETURNED BY QTR

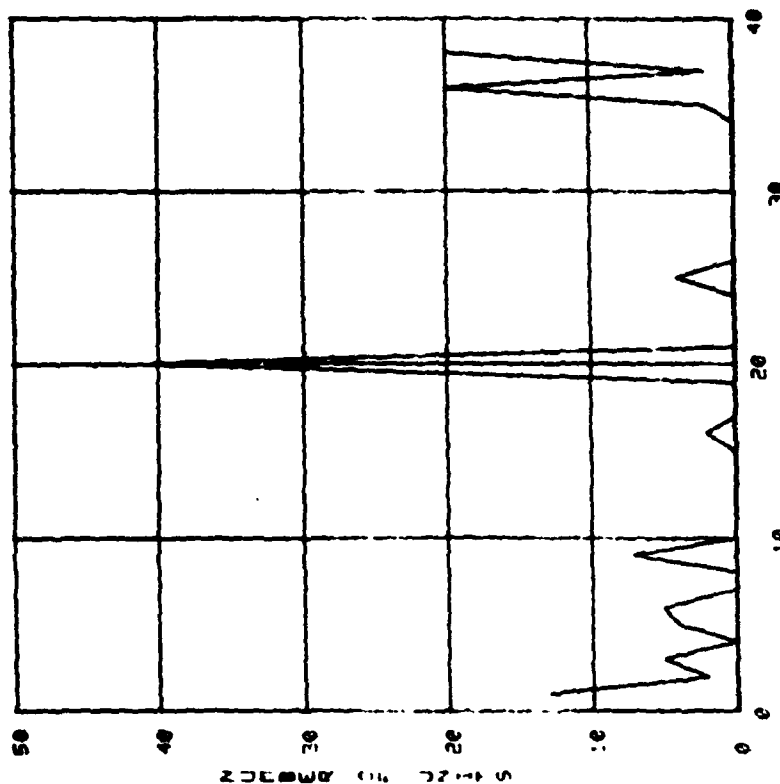
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NO. 5
A.C. SN 1270
PMC CB 00854250
NIN 3A
UN 4PLIFIER
NOUN 2
PG-3000 B
PTGT34 453.03
COS

[illegible]

RE-LENS



ITER DATA

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 PNC 18 1270
 NIIN 208915372
 UM EA
 NOUN ACCELEROME
 PGT 2
 RTGT34 3022 B
 COS 473.47

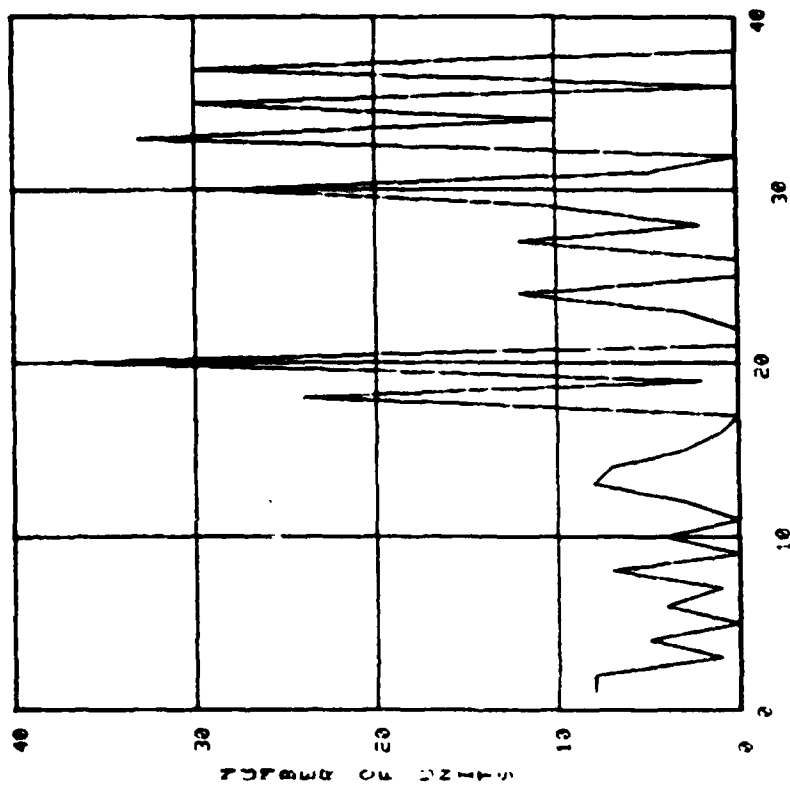
DEMANDS

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7	3	3	0	3	3	2	0
6	3	3	41	0	0	0	0
4	3	3	0	3	0	0	0
0	3	2	20	2	20	0	0

RETURNS

6	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR



GT2 NO. (1-JAN 71)

	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
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ITEM DATA

NO.	SM	8
ALC	CB	1270
WTC	003926296	
WIM	EA	
WJ	ELECT	PLSE
WOLN		
WGT	3032	B
WTG134		
COST		025.25

DEFENDS

[illegible]

33.36.14.5

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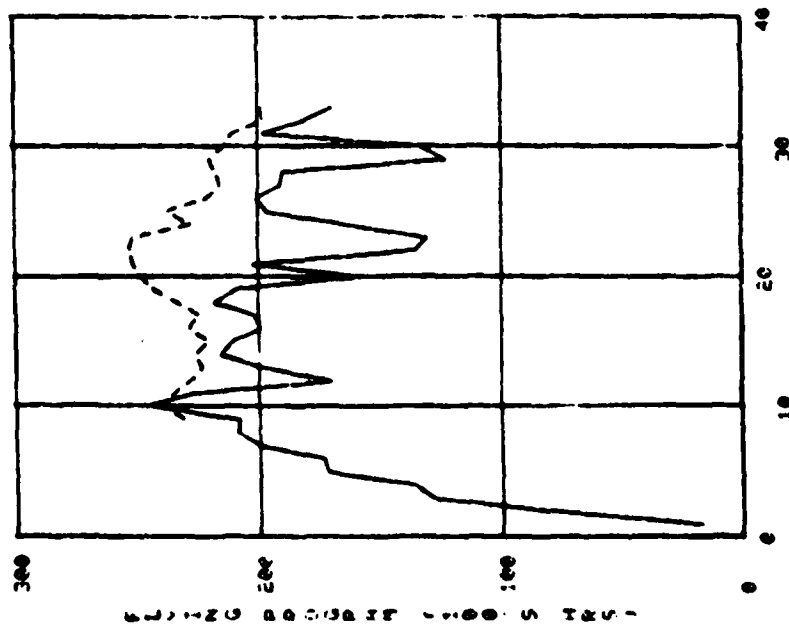
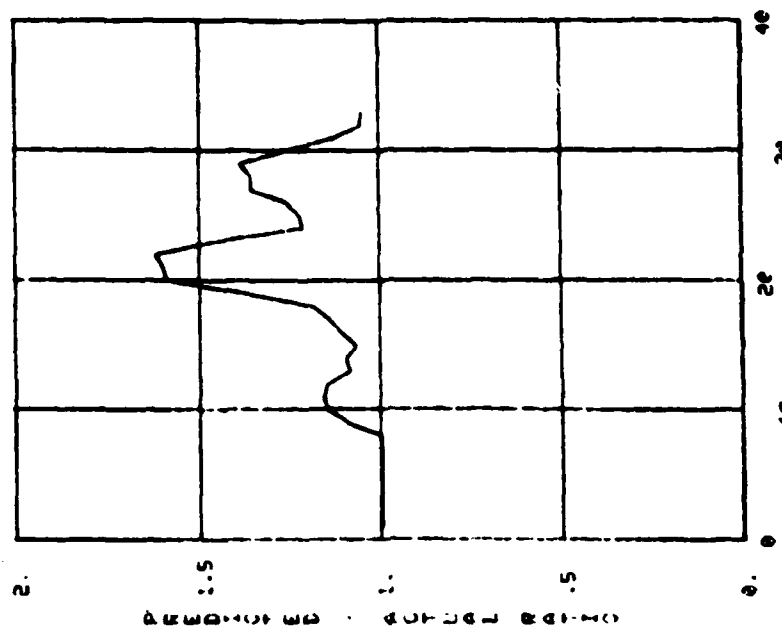
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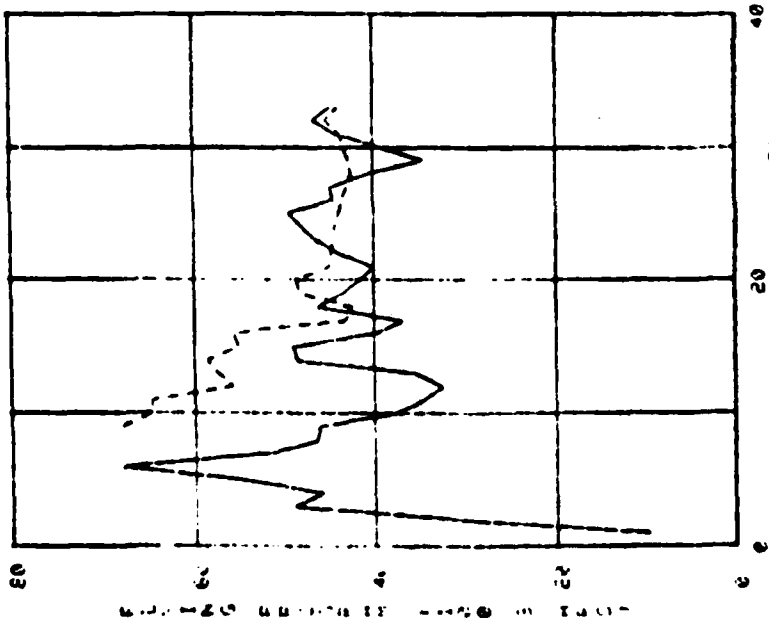
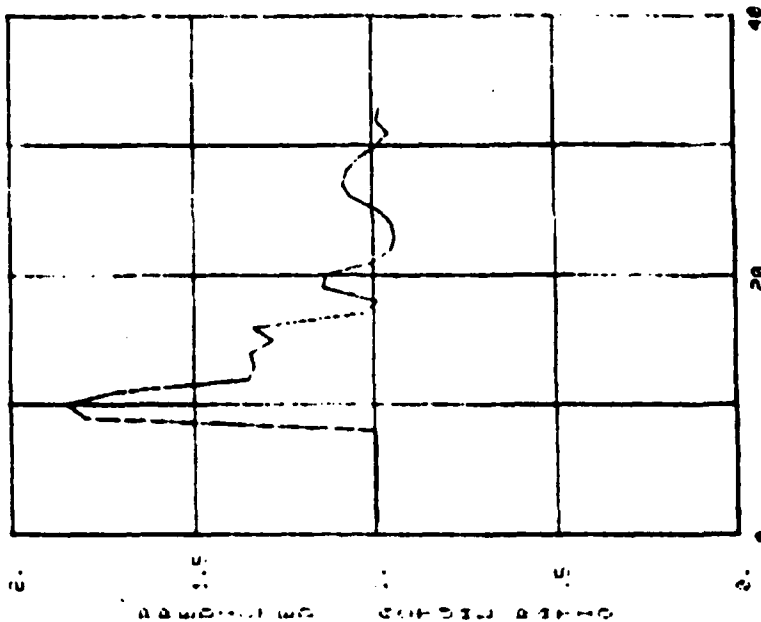


QUARTER NUMBER, CY 71 - 80

QUARTER NUMBER, CY 71 - 80

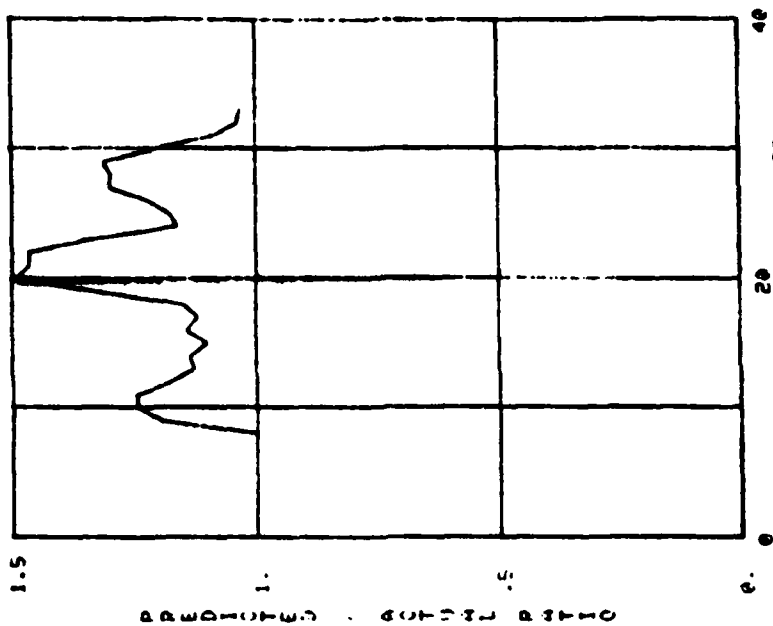
F111B

FLYING PROGRAM FOR CY 71 - 80

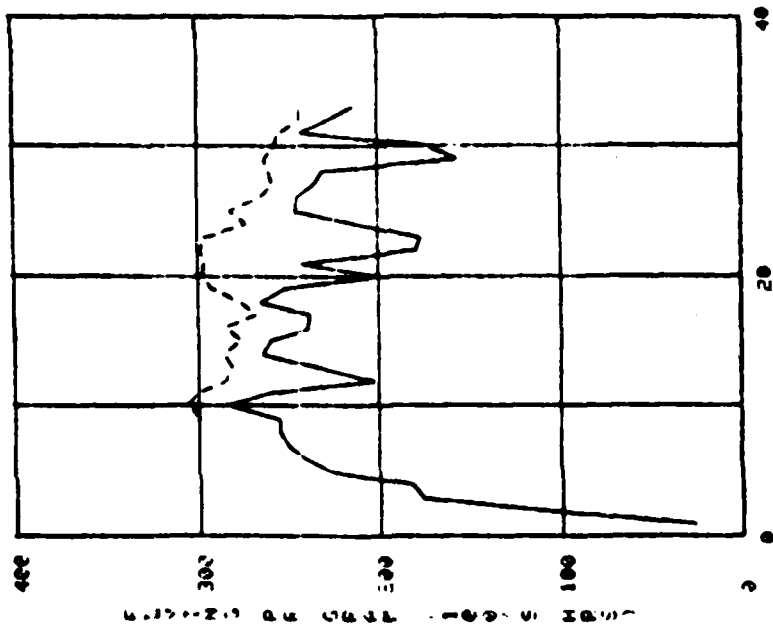


FB113

FLYING PROGRAM FOR 71 - 80



QUARTER NUMBER, QUARTER 1 - JAN 71



QUARTER NUMBER, QUARTER 1 - JAN 71

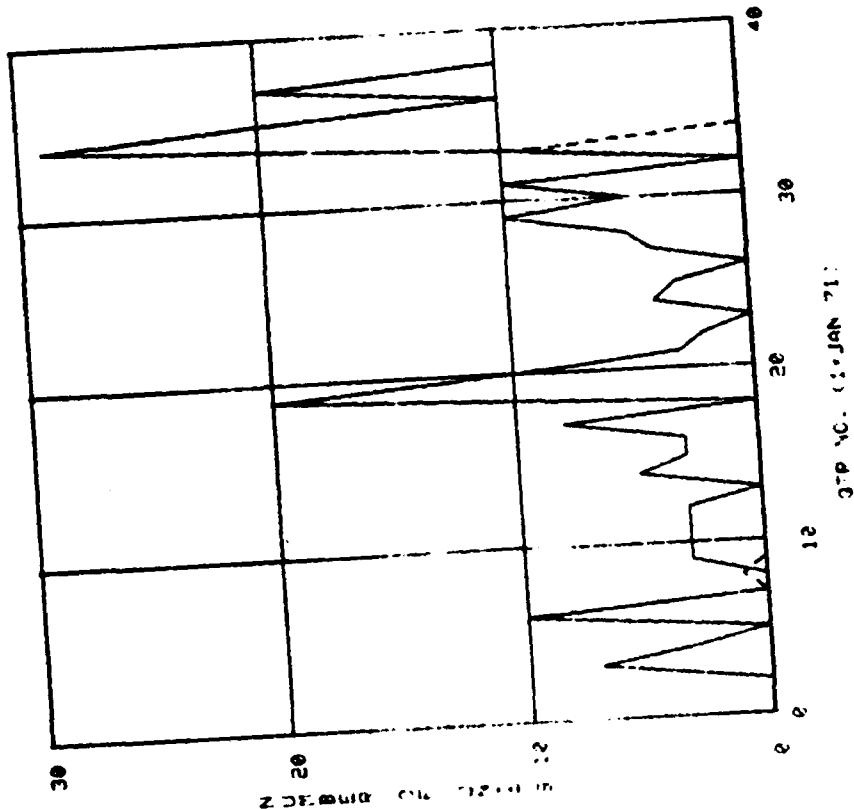
7F118

FLYING PROGRAM FOR CV 71 - 80

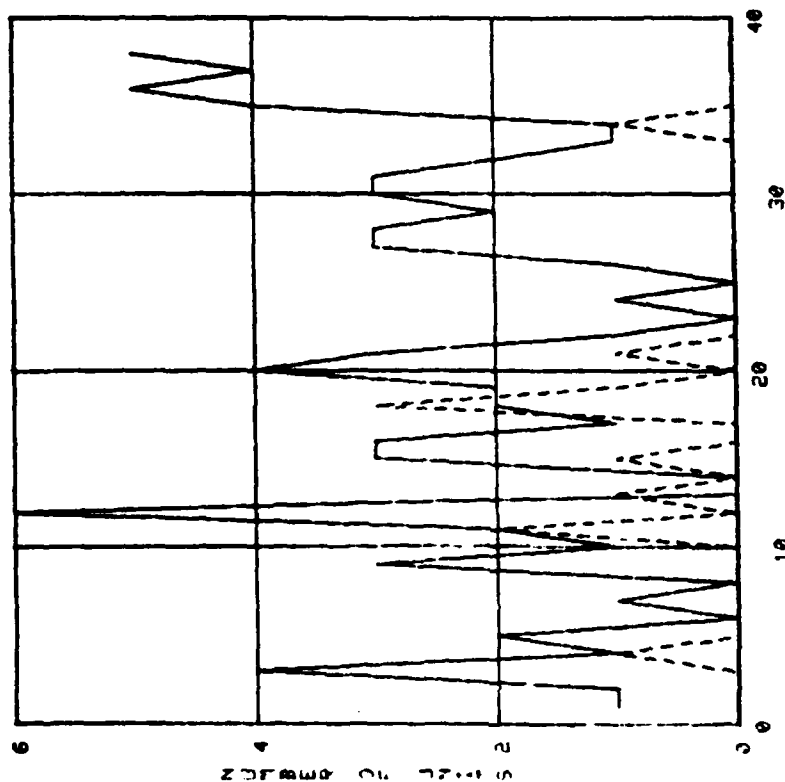
ITEM DATA

NO. 9
 ALG 57 1430
 PRC 22455500
 NIN 24
 LHM 1005110 4
 MOW 3134
 P12-34 3134 E 33.02
 COS-

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



--- GROSS UNIT DEMAND PER QTR
 --- UNITS RETURNED BY QTR



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 23
 ALC SM
 MNC BJ 1560
 NIN 000500797
 UA EA
 MOUN DUCT 453Y
 PGT 3
 FIG-34 324Z B 55.50
 COS-

RETURNS

1 1 1 1 1
 1 1 1 1 1
 1 1 1 1 1

RETURNS

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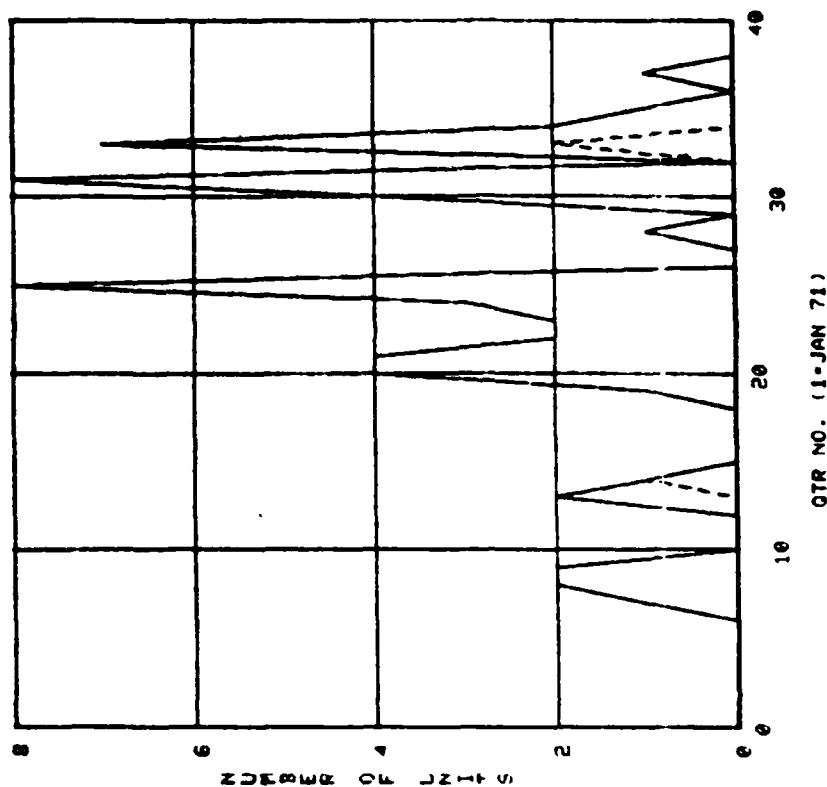
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	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
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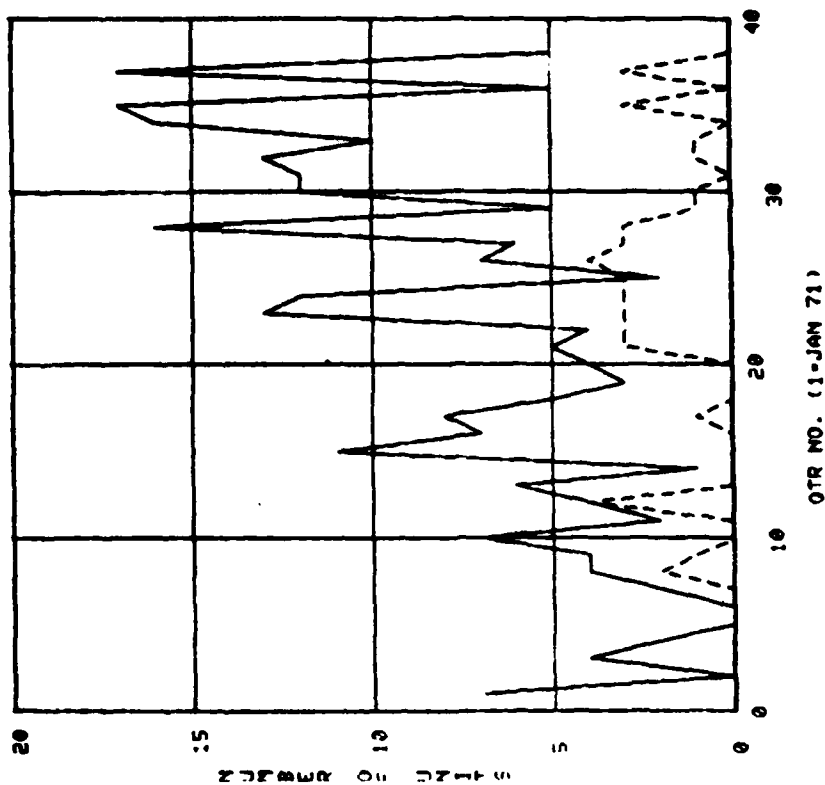
ITEM DATA

NO.	26
ALC	SM
HTC	B J 1560
NIIM	000786461
JM	EA
NOUN	STQAE
YGT	I
NTG134	3242 B
COST	2348.32

DEMANDS

RETURNS

[illegible]



	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
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ITEM DATA

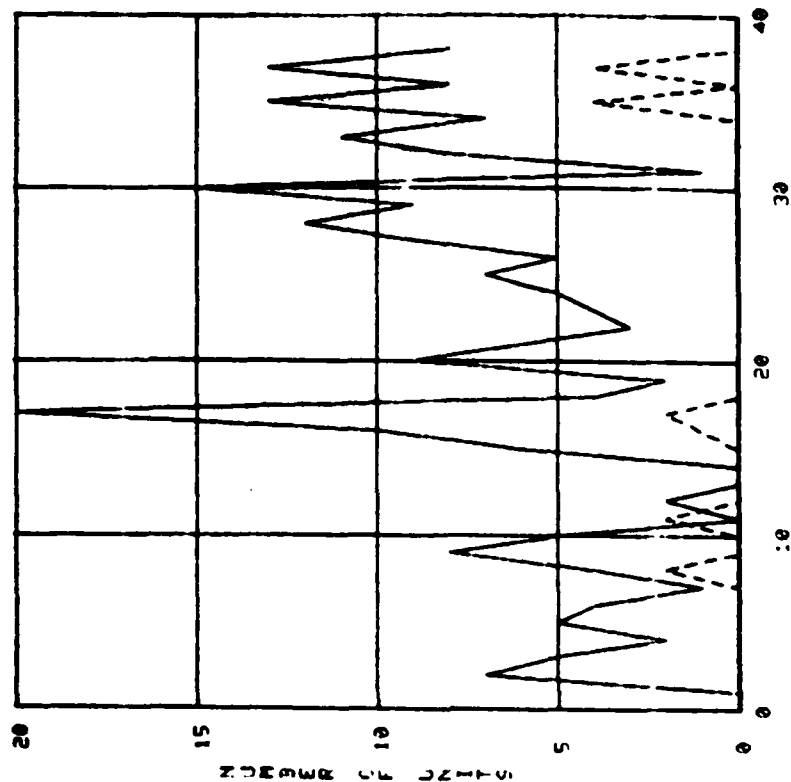
NO.	27
ALC	SM
MWC	DJ 1560
NIIN	000812544
UM	EA
MCJN	FA:RING HV
MGT	1
RTGT34	3242 B
COST.	405.50

DEMANDS

01-55-1-10
401051
5745
6-10-51
5-1-51
4-1-51

RETURNS

11131
000049
000031
04630
00313
00313
00313
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00313



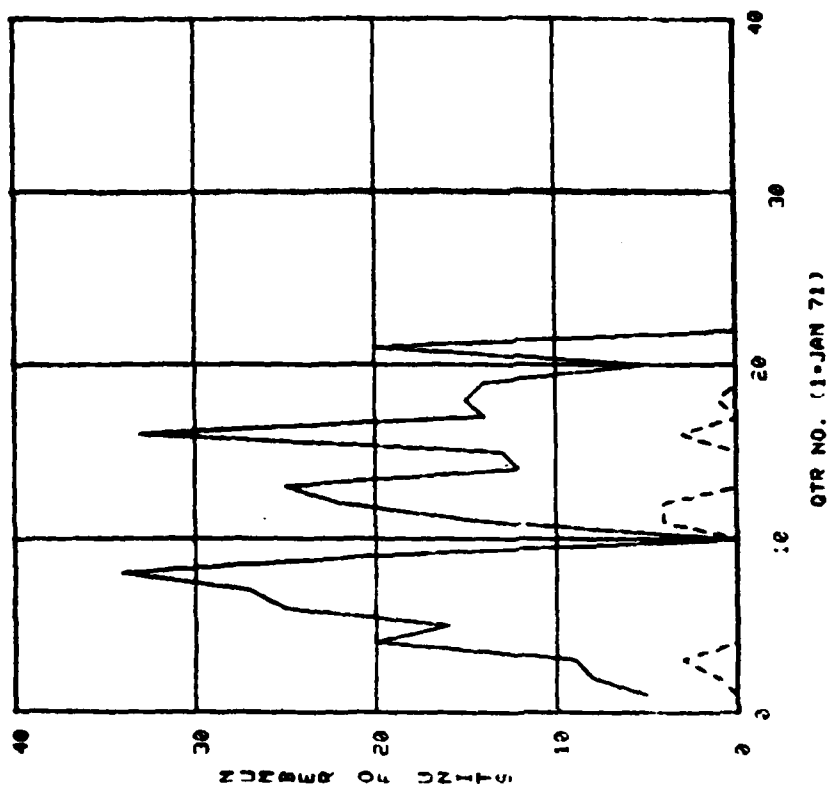
QTR NO. (1-JAN 71)

-----	GROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR

ITEM DATA

NO. 28
ALC 57
MPC 27
MIIN 000847293
UM EA
MOUN T-JBE
NGT 1
NGT34 3242
COST B 429.75

[illegible]

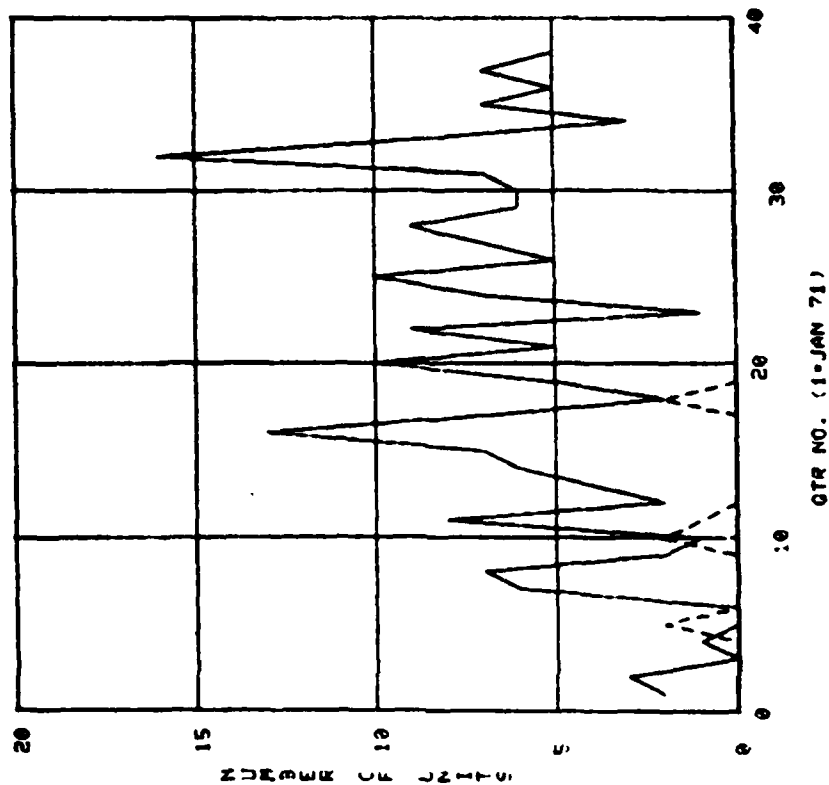


-----	GROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR

ITEM DATA

NO. 35
ALC SM
PHC DJ 1560
MIIN 000860112
UA EA
NOUN PLUG ASSV
MGT 1
RTGT34 3242 B
COS- 73.30

[illegible]



----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 36
 ALC SM
 PNC P 1580
 NIN 00000000
 UR EA
 NGUN MANUAL REL
 PGT 1
 RTGT34 3242 P 366.70
 COST

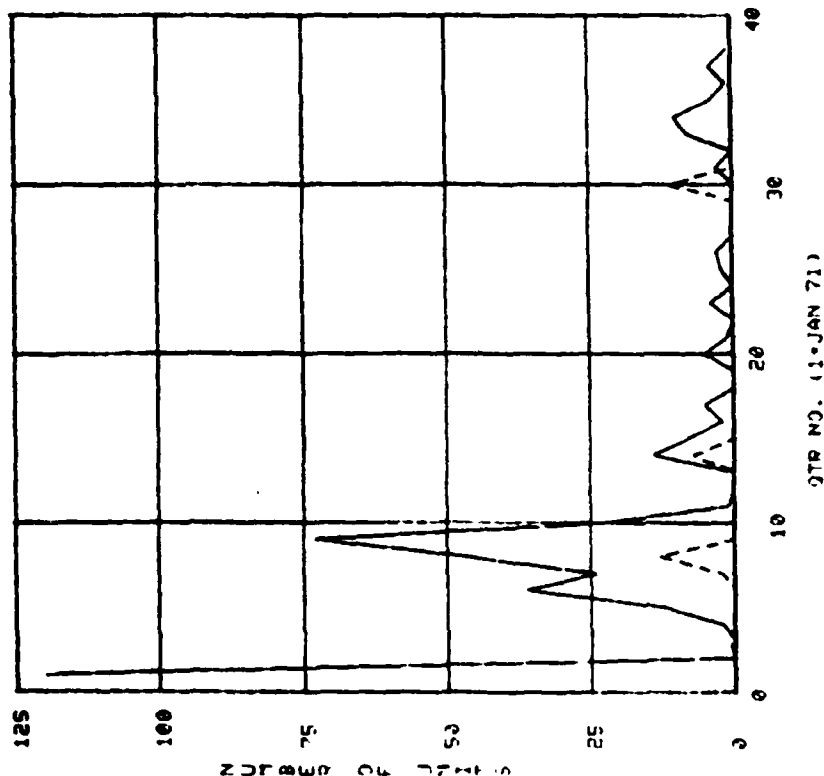
DEMANDS

2 3 4 5 6 7
 10 11 12 13 14 15

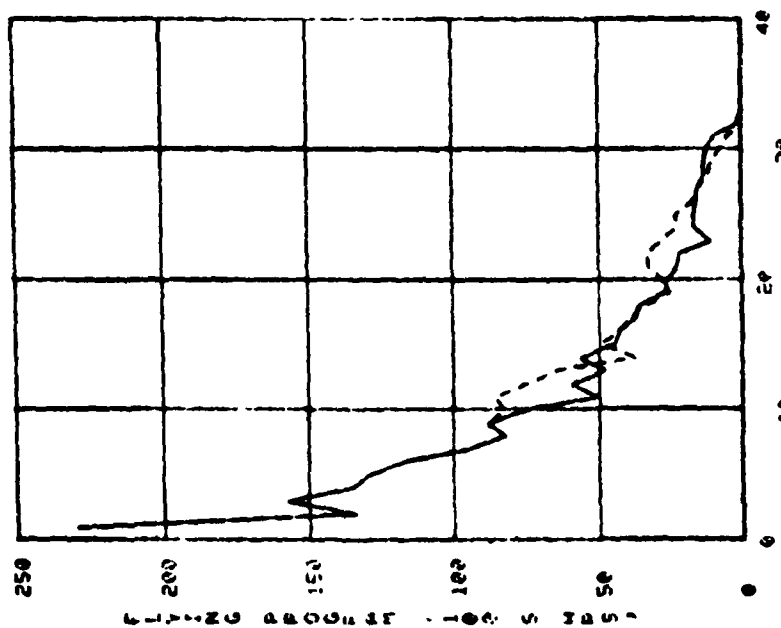
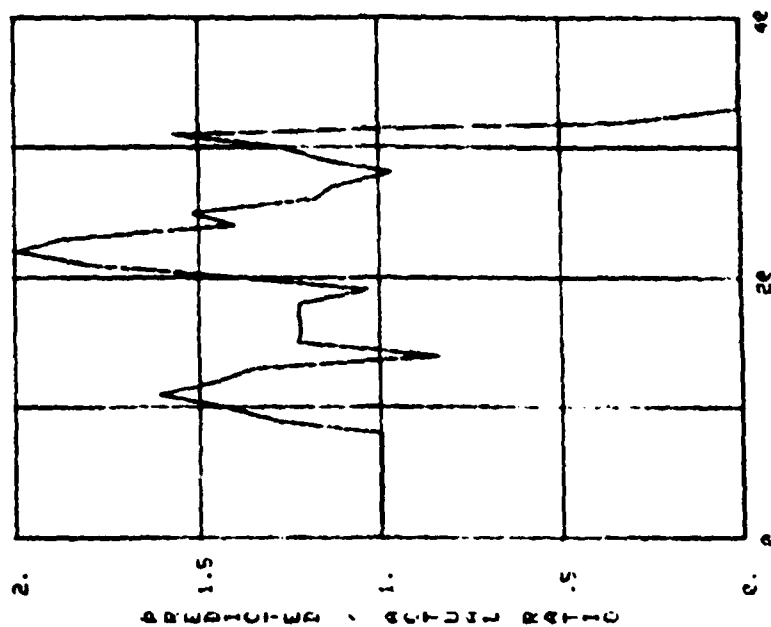
RETURNS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

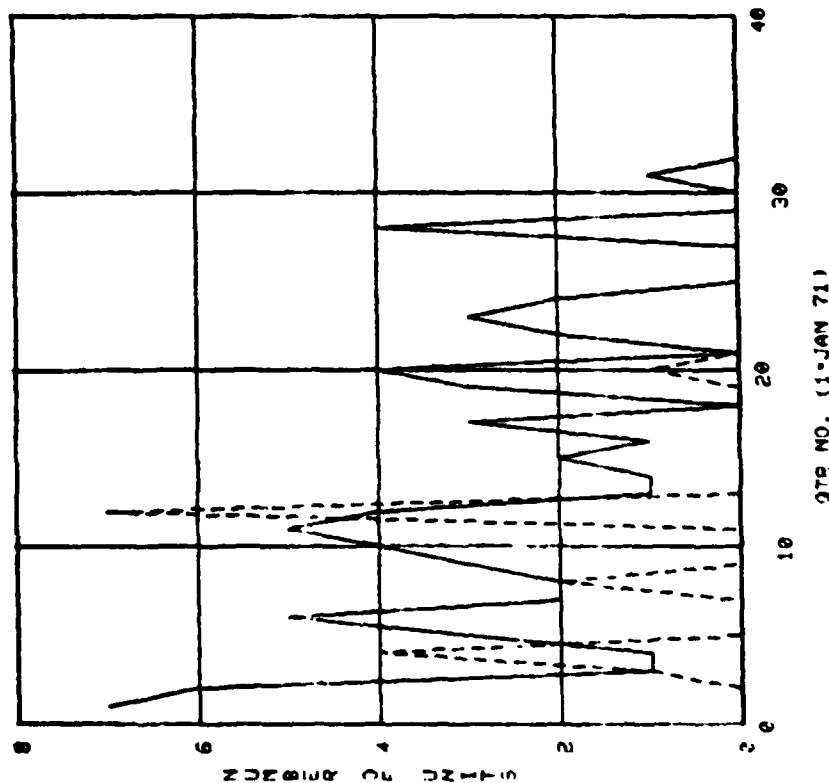
NO. ALC MTC MIN UN NOUN MGT MTC*34 COST

[illegible]

	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
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11218



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

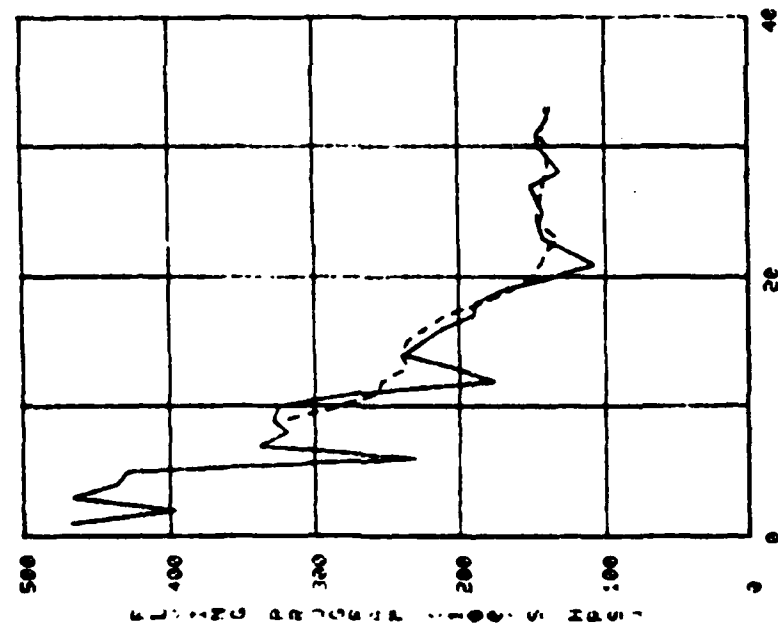
NO. 11
 ALC SM
 PRC LF 1560
 MIIN 000255648
 LP EA
 MCUN PANEL ASSY
 PGT 1
 MTG34 955Z B
 CCS- 431.51

DEMANDS

6	1	1	3	5	10	10
4	5	4	1	3	3	3
3	3	4	3	3	3	3
3	3	4	3	3	3	3
0	0	0	0	0	0	0

RETURNS

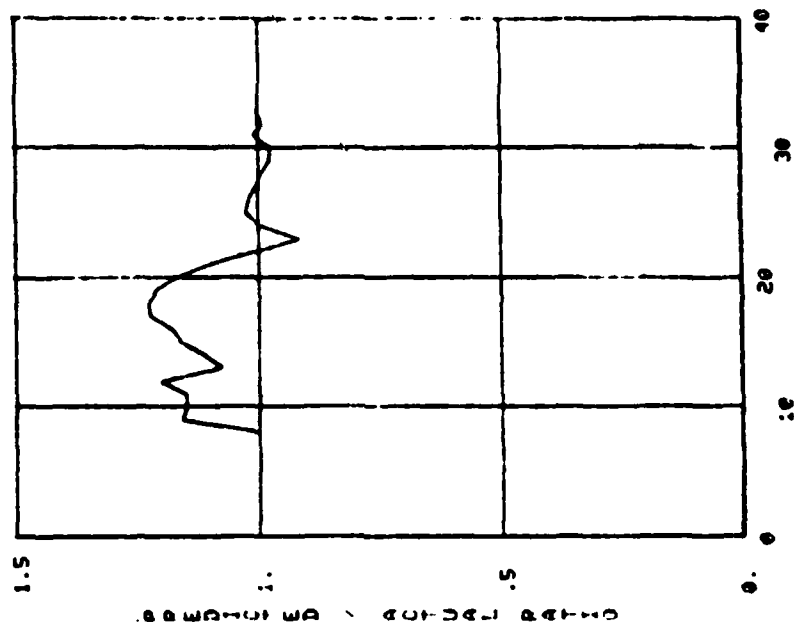
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0



QUARTER NUMBER, QUARTER 1 - JAN 71

T33

FLYING PROGRAM FOR CV 71 - 80

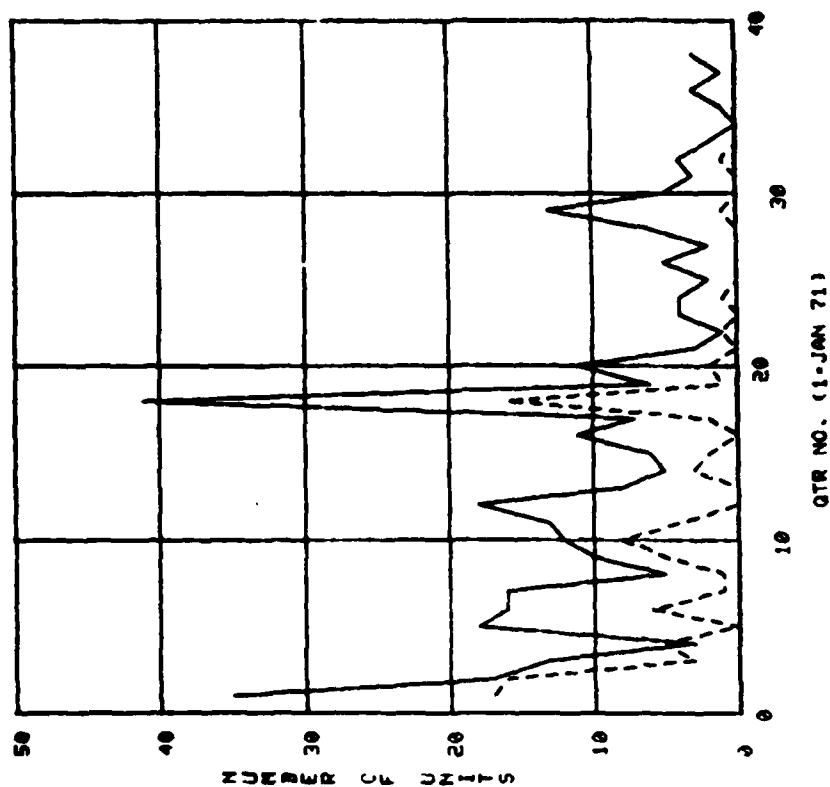


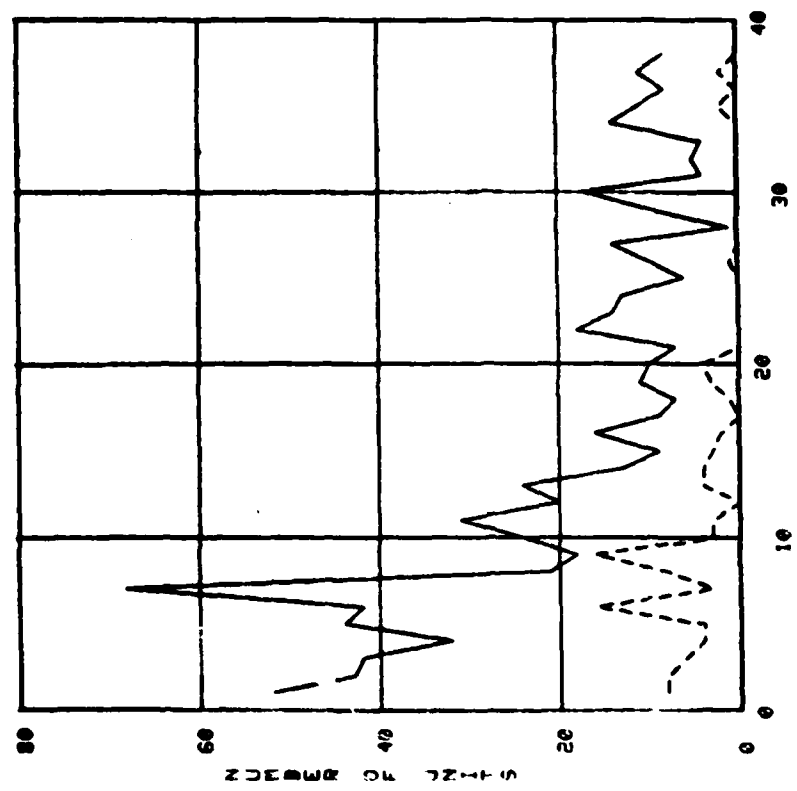
QUARTER NUMBER, QUARTER 1 - JAN 71

SYSTEM DATA

NO.	14
ALC	SM
WPC	LC
MIIM	000304732
UN	EA
NOLM	TUBE ASSY
NGT	2
TTG134	96SZ
COST	B
	126.46

DEMANDS	35	17	13	3	18	16	5
	10	12	13	15	8	5	11
	7	4	6	11	3	3	4
	2	5	2	6	1	1	4
	2	0	1	3	1	3	
RETURNS	17	16	3	5	3	6	1
	1	8	4	0	3	3	0
	2	16	1	2	2	0	1
	0	0	0	0	1	0	1
	0	0	0	0	0	0	1



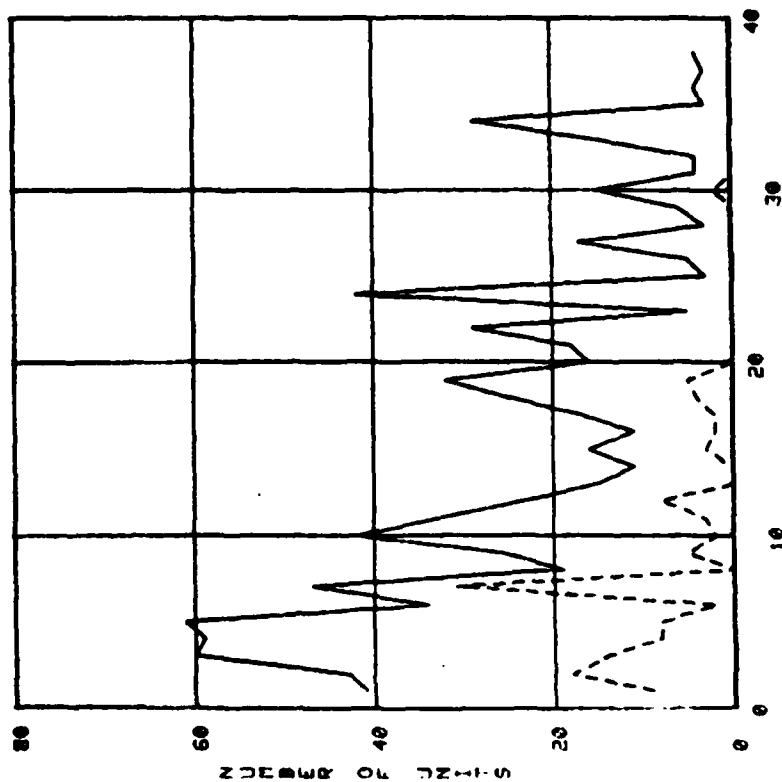


QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA
 NO. 15
 ALC SM
 PRC LC 1560
 MIIN 000315199
 LW EA
 MOUN CAP ASV
 PGT 3
 MTGT34 9682 B
 COST 50.44

DEMANDS	43	42	32	44	42	68	21
	52	24	31	24	13	9	16
	18	7	11	27	13	14	13
	9	10	10	10	17	4	5
	6	10	14	10	17		
	4	14	11	11	8		
RETURNS	8	6	4	4	16	3	8
	8	3	0	4	4	3	2
	16	3	0	0	0	0	0
	0	1	3	0	0	0	0
	0	1	0	0	0	0	0
	0	2	0	2	0	0	0



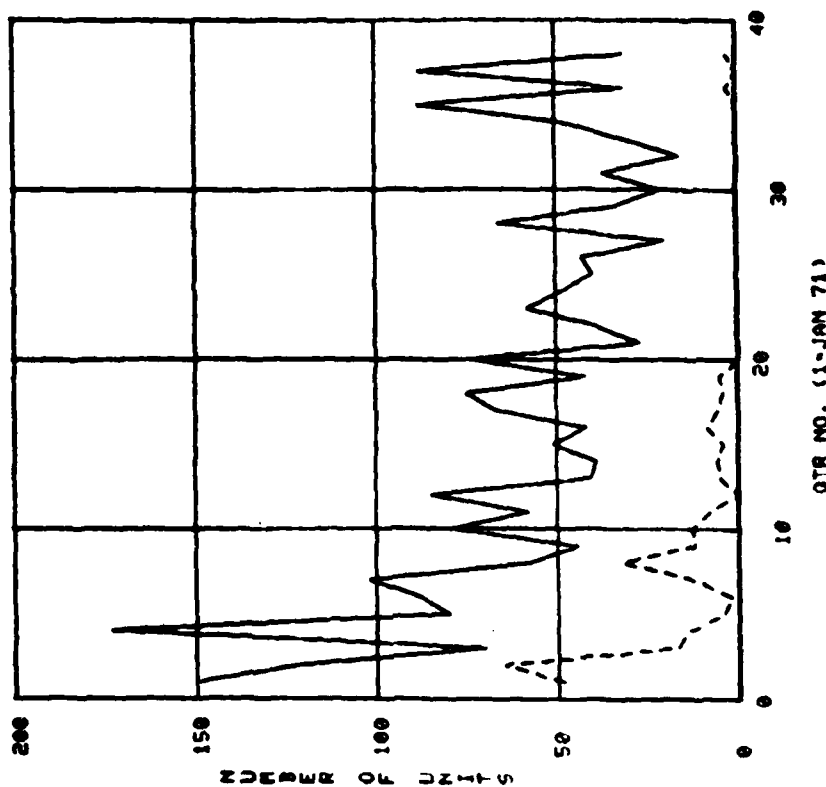
QTR NO. (1-JAN 71)

	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
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ITEM DATA

NO.	17
ALC	SM
MTC	LC
MIIN	1560
UA	000352079
NOLN	EA
NOLN	CRANK
MGT	ASSY
RTGT34	2
COST.	9682
	B
	55.65

DEMANDS	43	60	59	61	34	47	19
41	33	23	15	11	17	17	11
26	32	16	18	29	16	42	4
17	17	3	6	15	5		
13	11	4	3	4	4		
15	3						
RETURNS	18	14	8	8	2	17	0
9	3	8	0	0	3	3	2
5	5	0	0	0	0	0	0
2	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0



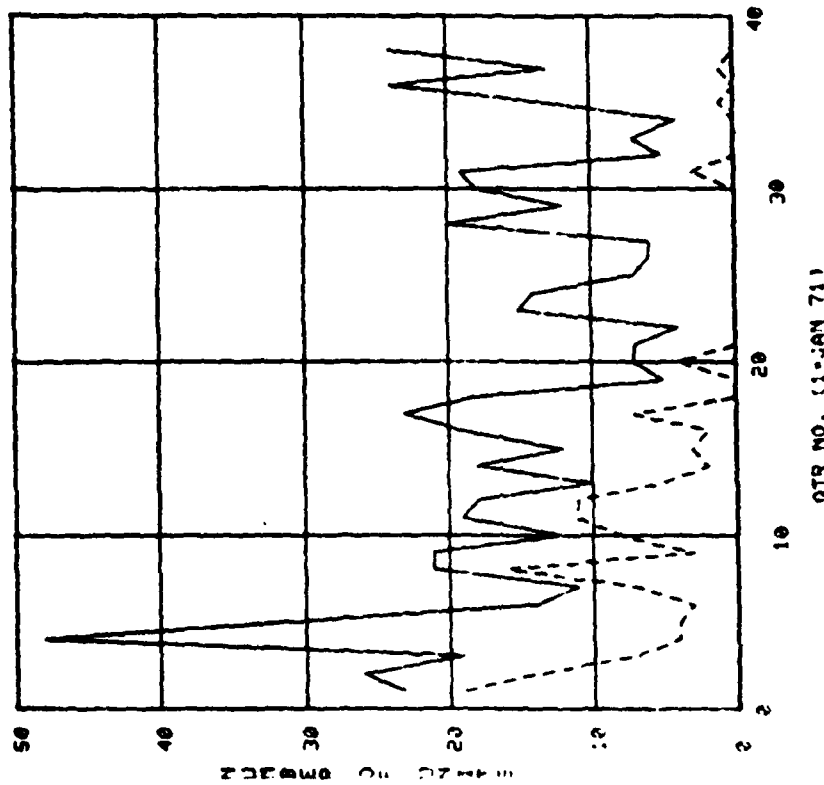
----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 18
 ALC SM LC 1560
 NTC 000473788
 NTH EA
 NDM DOOR ASSY
 NCT 2
 NCT34 9682 B 10.70
 COST

DEMANDS	149	121	70	173	80	88	102	58
	44	79	58	25	41	39	51	42
	67	75	42	74	37	39	58	40
	40	43	20	66	34	21	37	16
	31	49	88	31	88	31		

RETURNS	48	65	17	14	4	2	12	32
	12	13	8	0	5	6	4	9
	6	4	5	0	0	0	0	0
	0	0	0	0	0	0	0	0
	0	0	0	3	0	3	0	0



----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 19
 ALC SM
 PNC LC 1560
 NIN 000474009
 UM EA
 NOUN CLASS USMC
 PGT 2
 RTG24 5682 8
 COS 167.03

DEMANDS

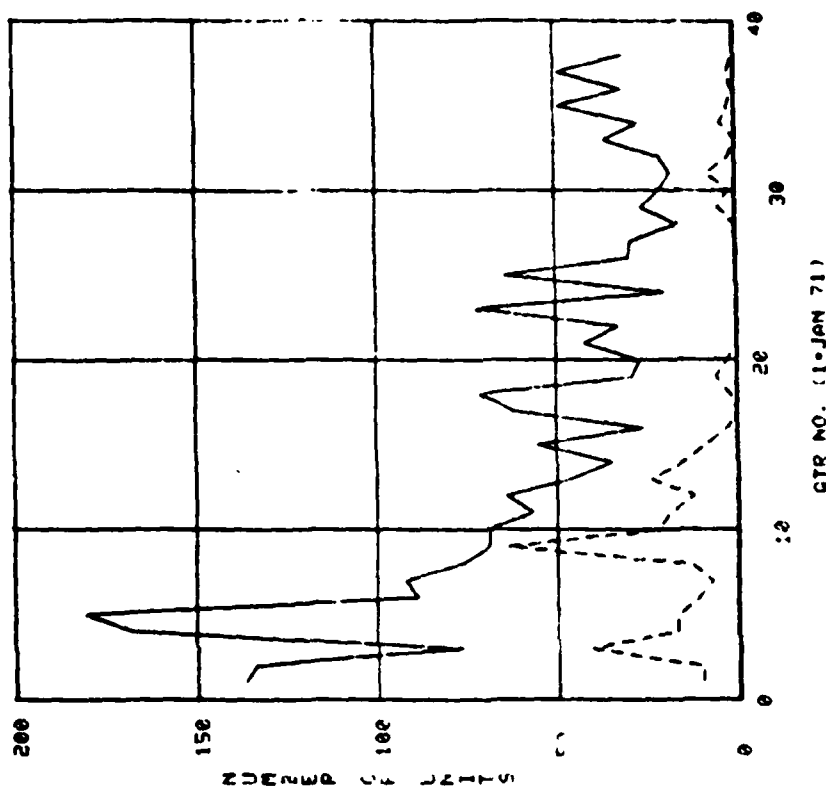
23	26	13	13	48	14	13	14	15
21	13	13	13	13	13	13	13	13
23	13	13	13	13	13	13	13	13
7	13	13	13	13	13	13	13	13

RETURNS

19	14	7	4	4	4	5	3	1
13	13	11	11	11	11	11	11	11
7	13	13	13	13	13	13	13	13
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0	0	0	0	0	0	0	0	0

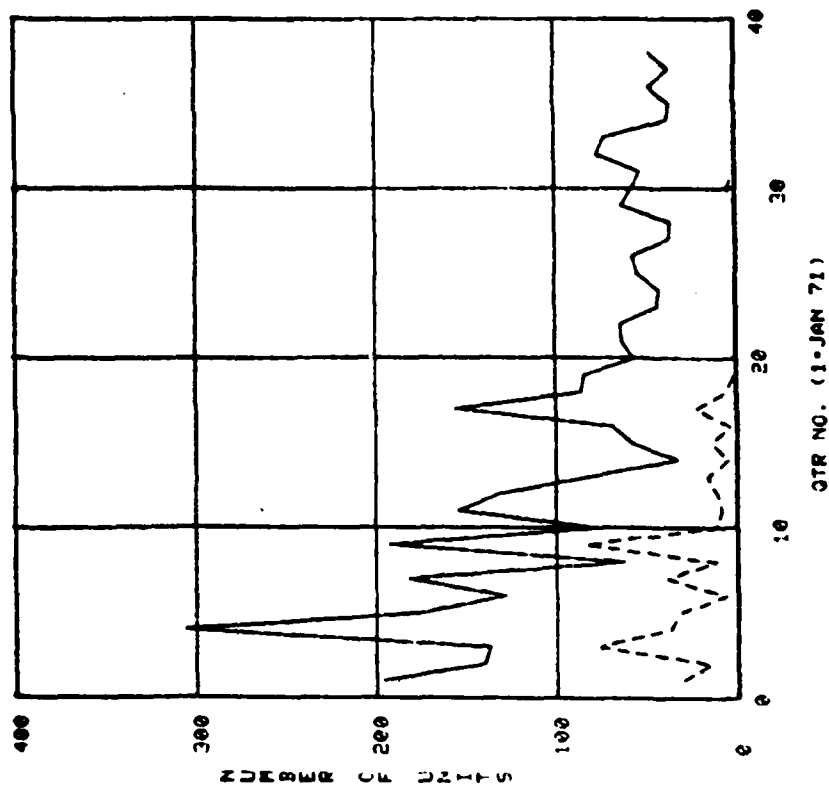
ITEM DATA

NO. 20
ALC SN
MHC LC 1560
MIIN 000474201
LPI EA
MOUN SEAL ASSY
TAG 9682 P
COST 54.00

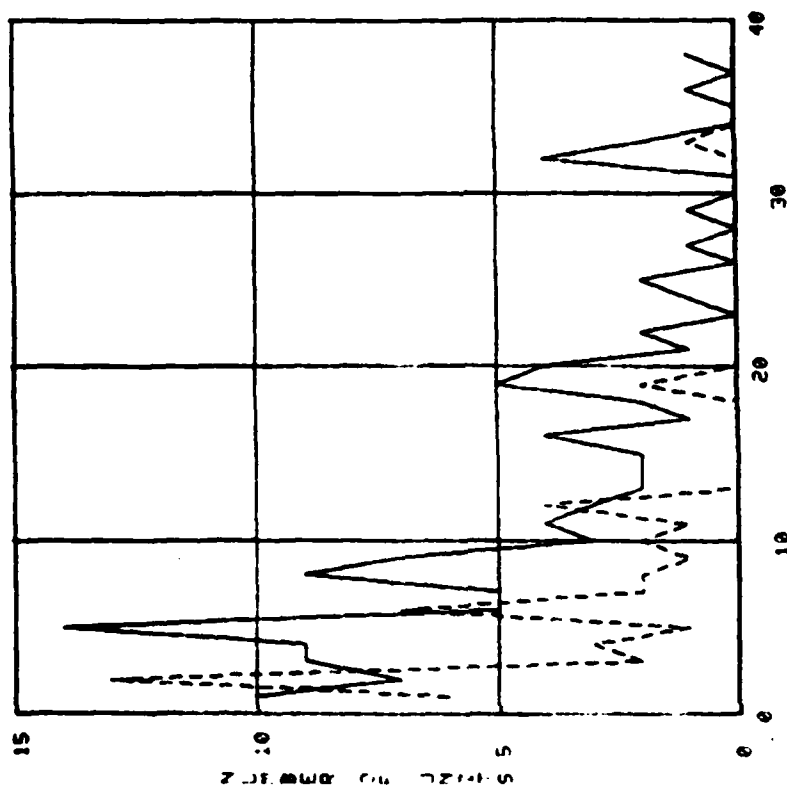
[illegible]

ITEM DATA

NO.	40
ALC	57
WNC	LC
MIIM	1560
UF	00912863
WCLN	EA
TGT	CAP ADAPTR
TGTG134	E
COST	9682 R
	21.82

[illegible]

	-----	GROSS UNIT DEMAND PER QTR
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QTR NO. (1-JAN 71)

-----	CROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR

ITEM DATA

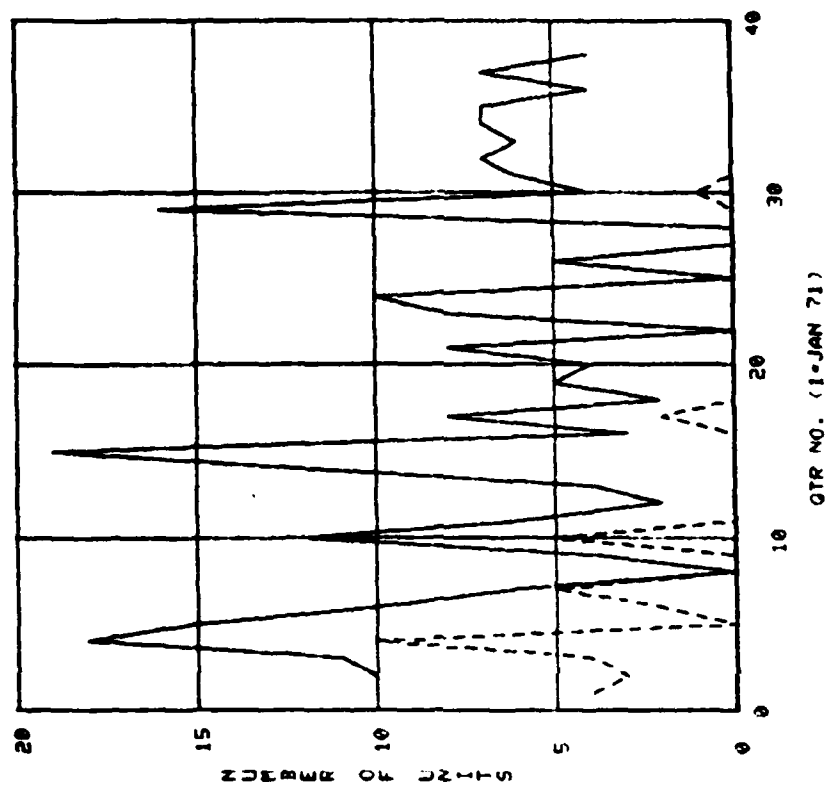
NO. 45
ALC SM
MTC LC 1560
MIIN 201215992
UN EA
NOUN DCCR ASSY
MGT 2
MTG 24 9682 3
COS 383.43

SCN01.3C

SEMPUS	RETURNS
10	6
7	1
1	0
2	0
2	0
3	0
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----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 46
 ALC
 MFC 1580
 NIM 001224295
 UM EA
 NGU APRN ASSY
 NGT 2
 TTGT34 9682 B 65.10
 COST

DEMANDS

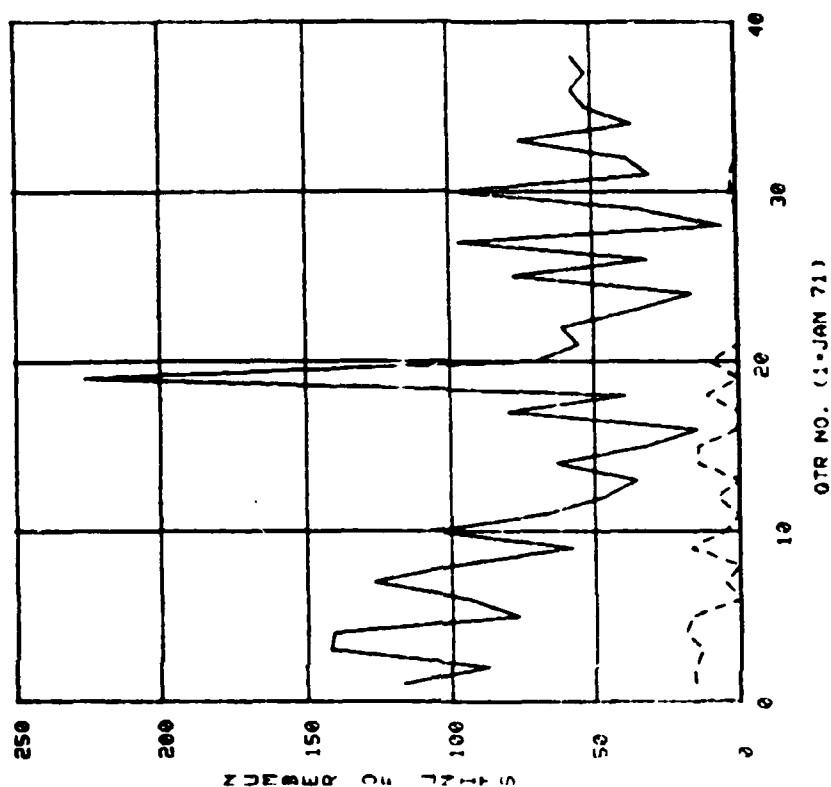
12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

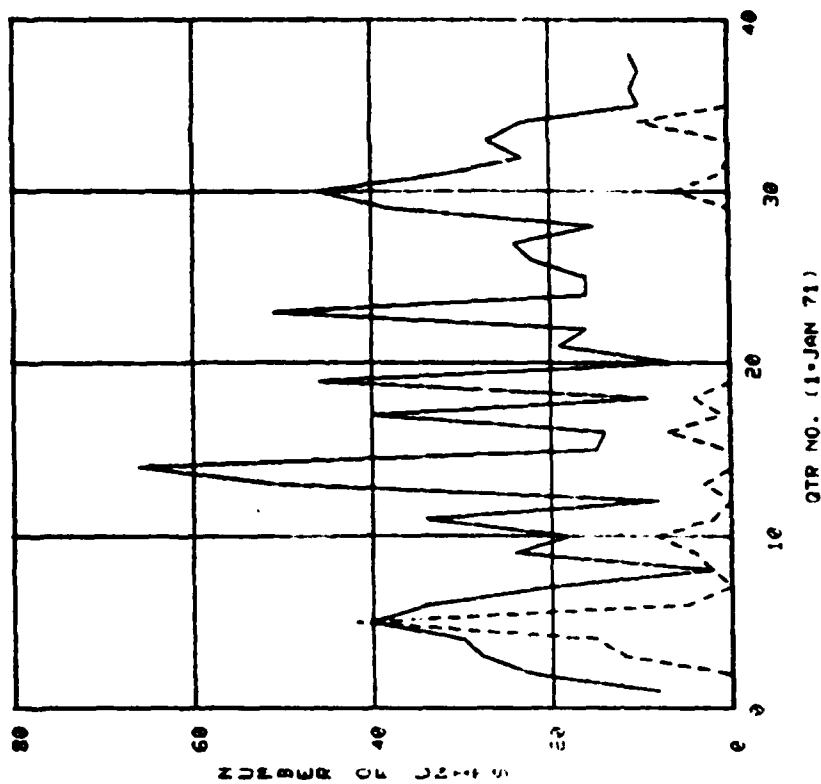
RETURNS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

ITEM DATA		47
NO.	SM	
ALC	LC	1560
PMC	00125355	
NIIN	EA	
UN	DUST SHLD	
NOUN	2	
PGT	9682	B
MTG34		
COST		5.69

DEMANDS	RETURNS
17	5
58	17
80	0
78	0
75	0
87	15
193	11
216	9
12	13
56	0
35	0
32	0
15	0
141	13
165	8
157	10
75	9
64	0
43	0
34	0
335	0
32	14
36	0
34	0
33	0
33	0
33	0



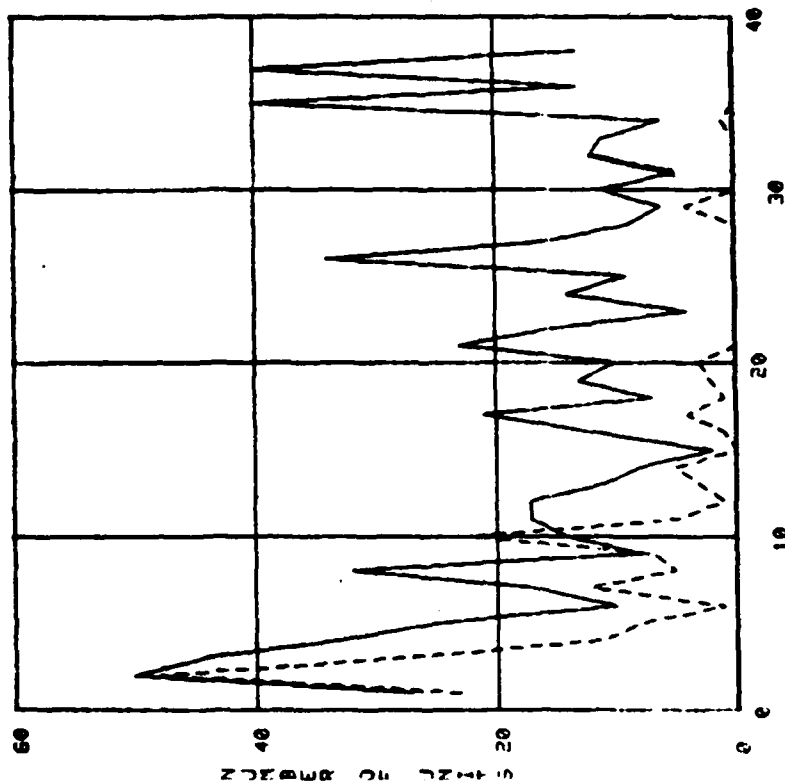


ITEM DATA

NO. 48
 ALC SM
 MPC LC 1560
 MIIN 001227719
 UP EA
 NOUN BRACE
 TGT 2
 YGT34 9632 B
 COST 36.96

DEMANDS	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
8	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
24	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
16	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
27	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	

RETURNS	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3



OTR NO. (1-JAN 71)

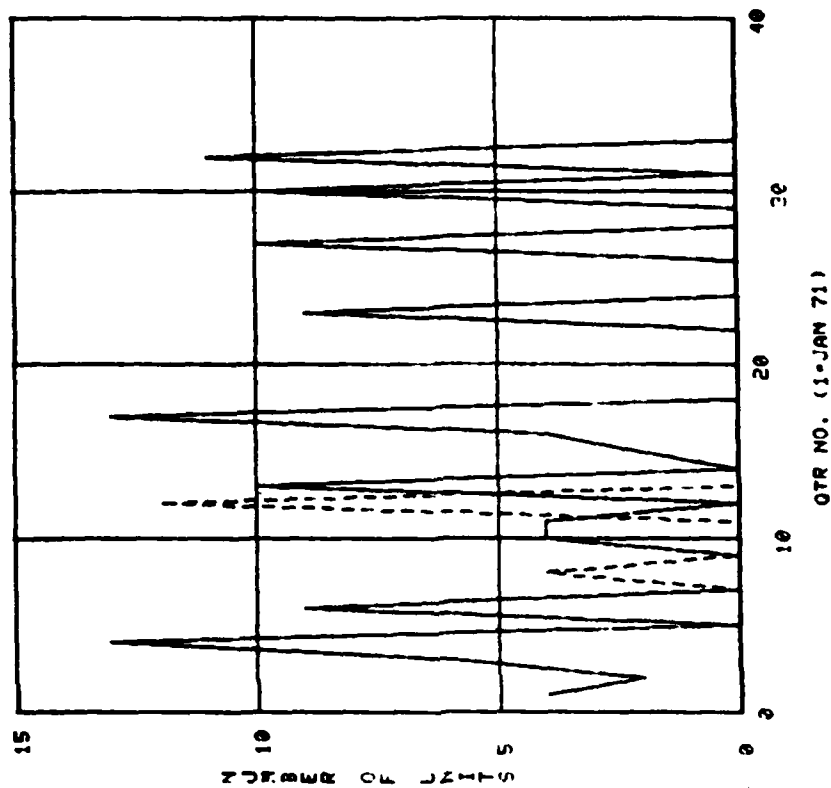
--- GROSS UNIT DEMAND PER OTR
 --- UNITS RETURNED BY OTR

ITEM DATA

NO. 49
 ALC SM
 RMC LC 1560
 NIN 001233365
 UM EA
 NOUN CLASS
 PG 2
 MTGT34 3682 B
 COST 75.68

DEMANDS	50	44	33	25	12	15	12	32
27	14	17	12	11	12	13	14	12
21	17	13	10	23	15	14	14	12
9	34	16	19	10	11	11	11	12
11	6	40	40	13	13	13	13	12

RETURNS	48	27	11	3	1	5	1	5
23	22	5	1	3	0	0	0	0
7	22	5	3	0	0	0	0	0
4	1	5	0	4	0	0	0	0
0	1	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0



	GROSS UNIT DEMAND PER QTR	UNITS RETURNED BY QTR
	-----	- - - -
1		
2		
3		
4		
5		
6		
7		
8		
9		
0		

ITEM DATA

40. ALC
MTC
MIIN
JA
NOUN
MGT
MTG134
COST

38
SM
AD :440
COT77:6617
EA
JACKET
5
:07J B :6.09

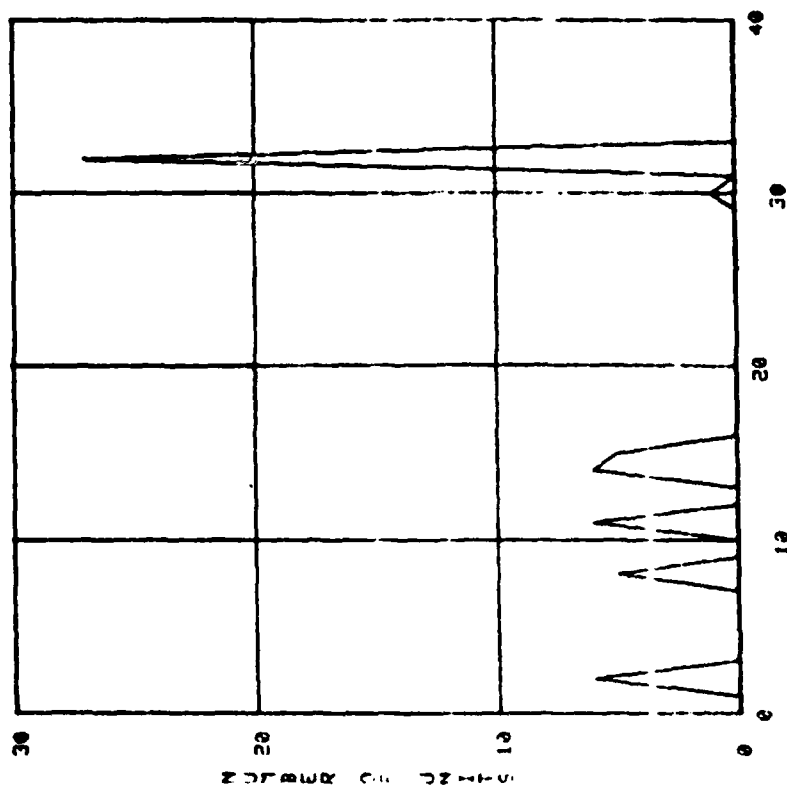
STANDS

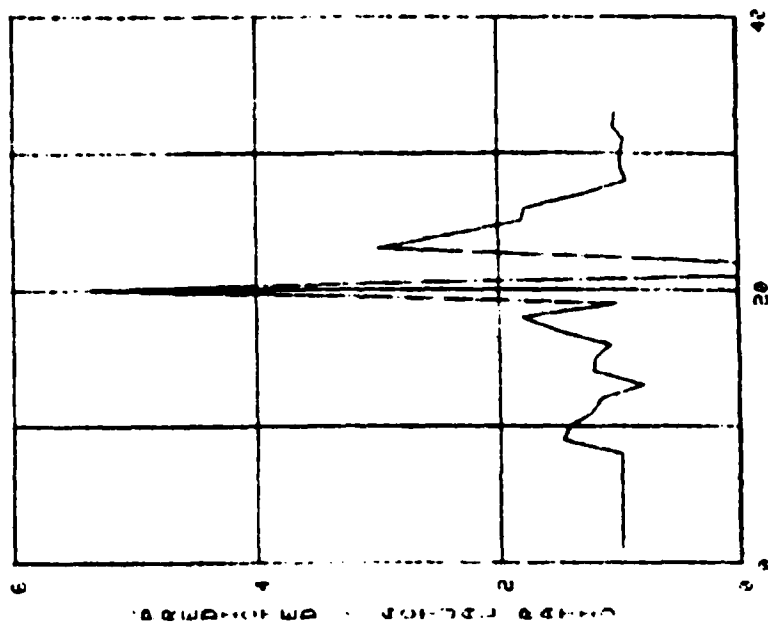
[illegible]

RELAYS

[illegible]

ITEM DATA		40
NO.	SN	
ALC	AD	:450
HTC	006885623	
UIN	EA	CABLE ASSY
UT	5	
UOLN		
UGT		
UGT34	1073	B
UGT		1.37

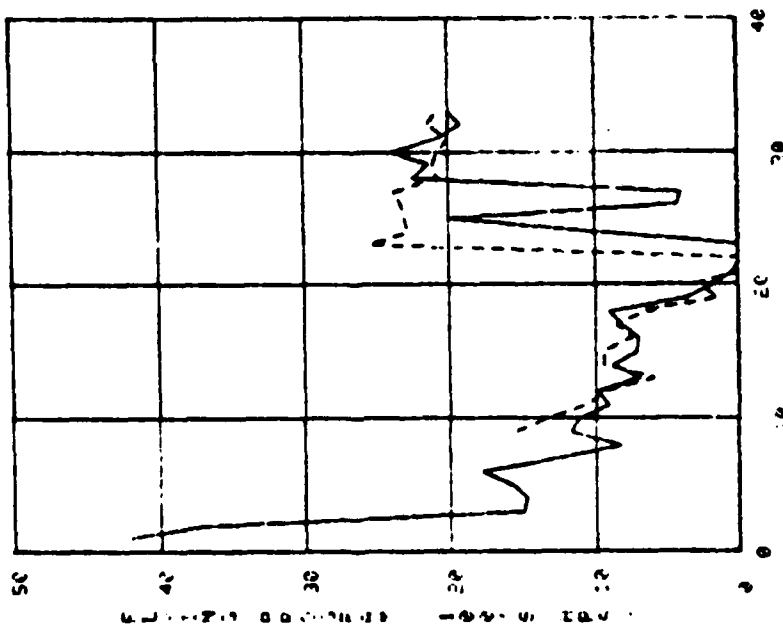




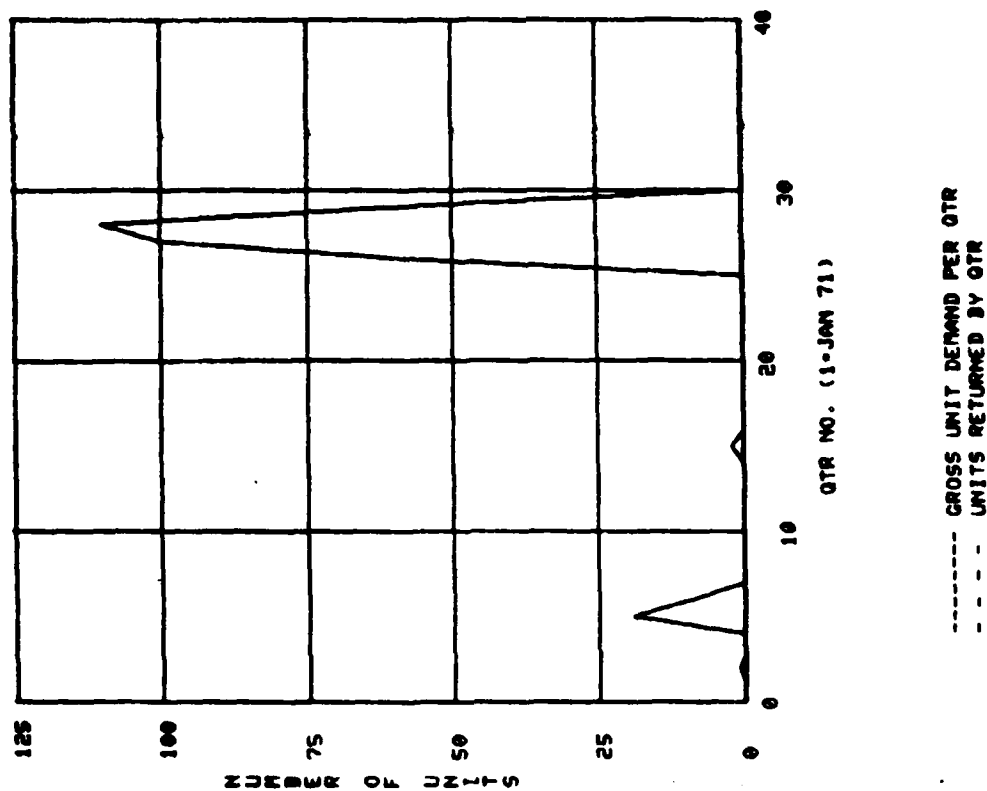
QUARTED NUMBER, WARE 1 - JAN 71

F1004

FLYING PROGRAM FOR 01 71 - 80



QUARTED NUMBER, WARE 1 - JAN 71



ITEM DATA

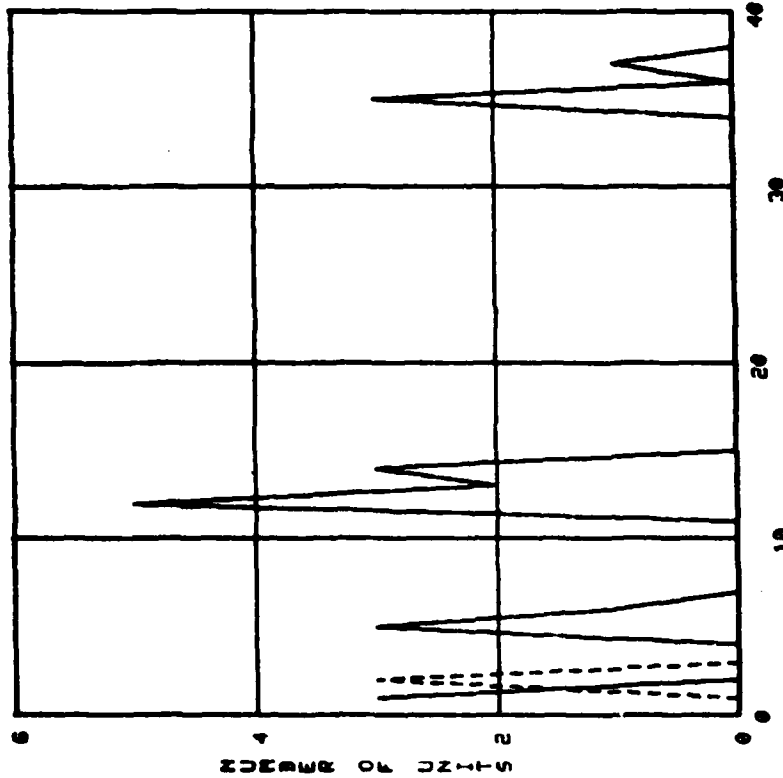
NO. 2
ALC
WNC
NIN
LN
NOUN
NGT
NCTG134
COST

SN
CB 1095
004738616
EA
CAP EJECT
2
303Z B 7.13

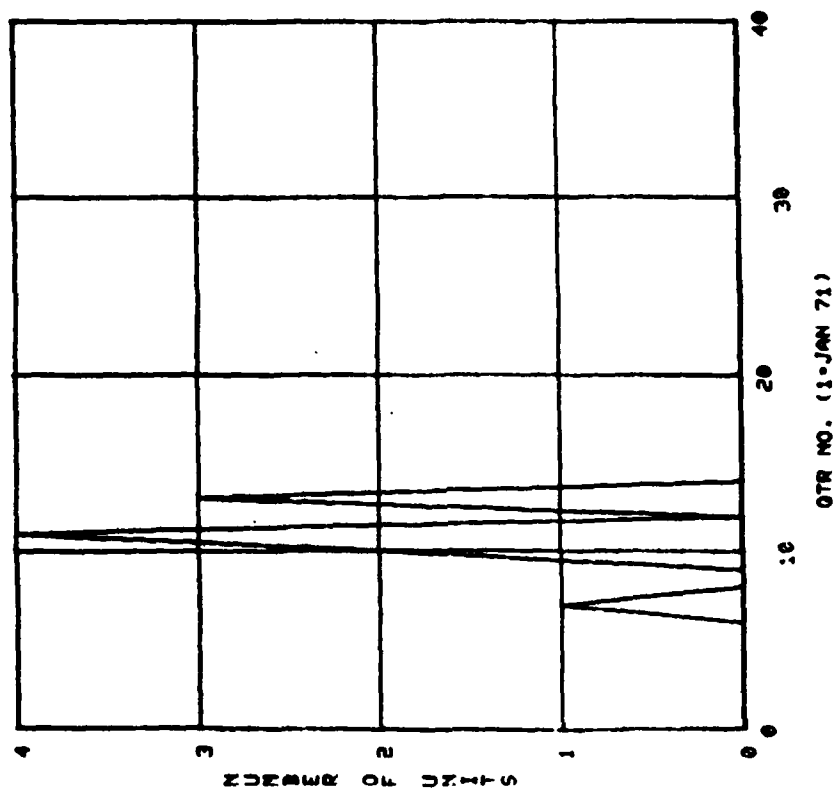
DEMANDS	1	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0</													

ITER DATA
 NO. 8
 ALC CB 1270
 MRC 004739451
 NIIN EA
 MOUN LENS
 MGT 2
 MTGT34 3032 8
 COST 128.93

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR



ITEM DATA

NO. 9
 ALC SH
 MFC CB 1270
 NIIN 007167207
 UR EA
 MOUN PREAMP ASY
 MGT 2
 RTGT34 3032 B
 COST B18.30

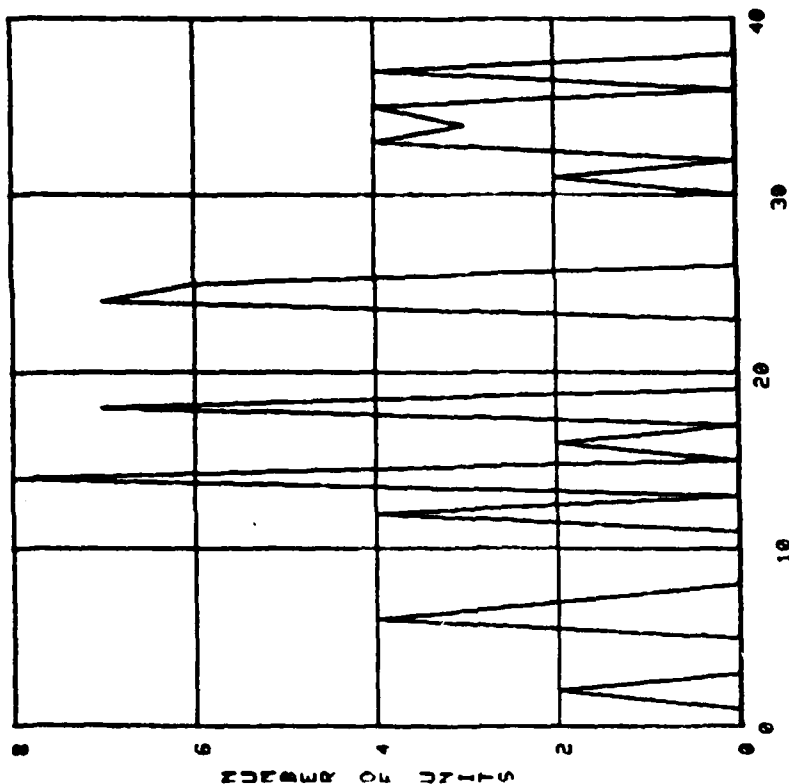
DEMANDS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

RETURNS

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

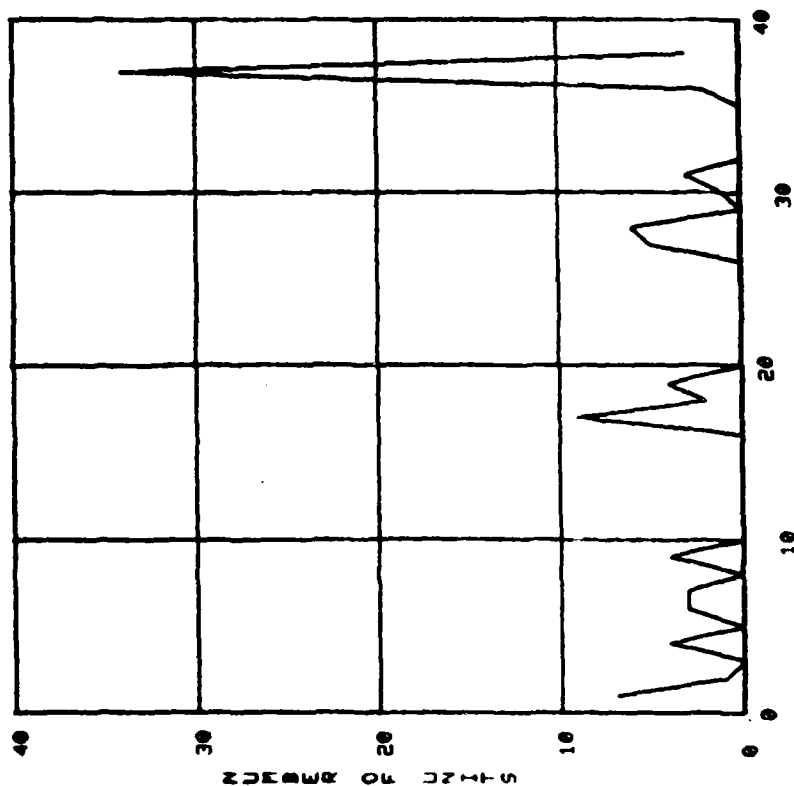
ITEM DATA
 NO. 11
 ALC SN CB 1270
 MMC 007949128
 NIIM EA
 UAT AURAL TONE
 NOUN 2
 MGT 3032 B
 MTGT34 55.30
 CCST

DEMANDS	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR
 - - - - - UNITS RETURNED BY QTR



QTR NO. (1-JAN 71)

----- GROSS UNIT DEMAND PER QTR
 - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 12
 ALC SM
 WPC CB 1270
 MIIN 008076556
 UM EA
 MOUN LAUEGUIDE
 NGT 2
 MTGT34 3032 B
 COST 56.41

DEMANDS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

AD-A124 495

PLOTS OF CY71-79 DEMANDS AND RETURNS FOR A SAMPLE OF
SACRAMENTO ALC DO62 ITEMS(U) DECISION SYSTEMS
BEAVERCREEK OH W S DEMMY MAY 81 WP-81-01

22

UNCLASSIFIED

F33600-80-R-0314

F/G 15/5

NL

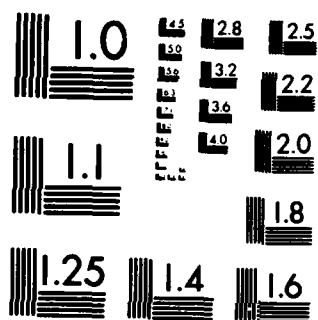
END

DATE

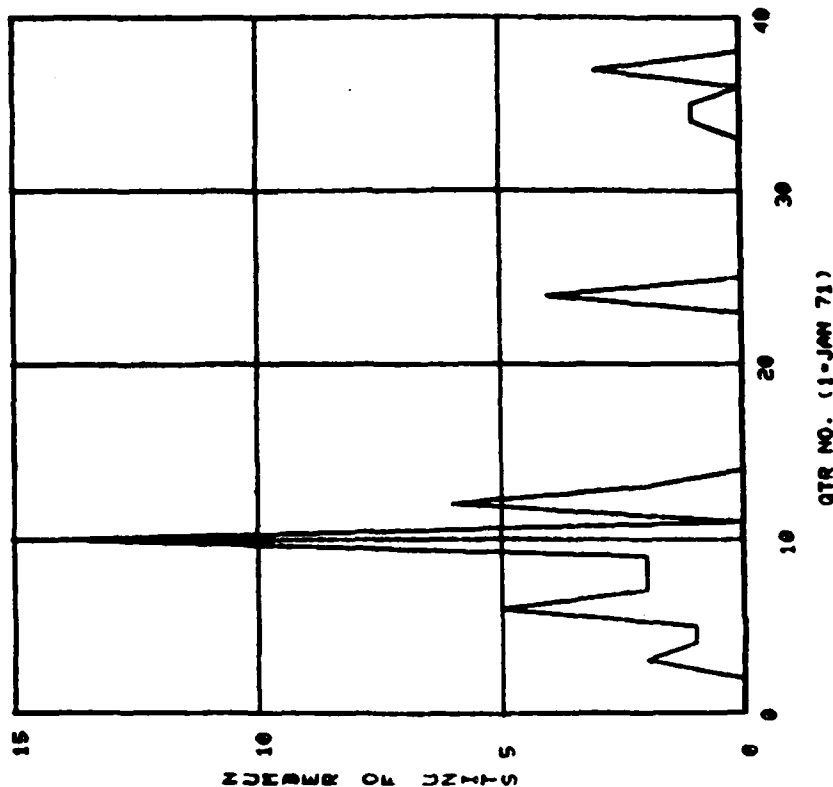
FILED

1 0 1

DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



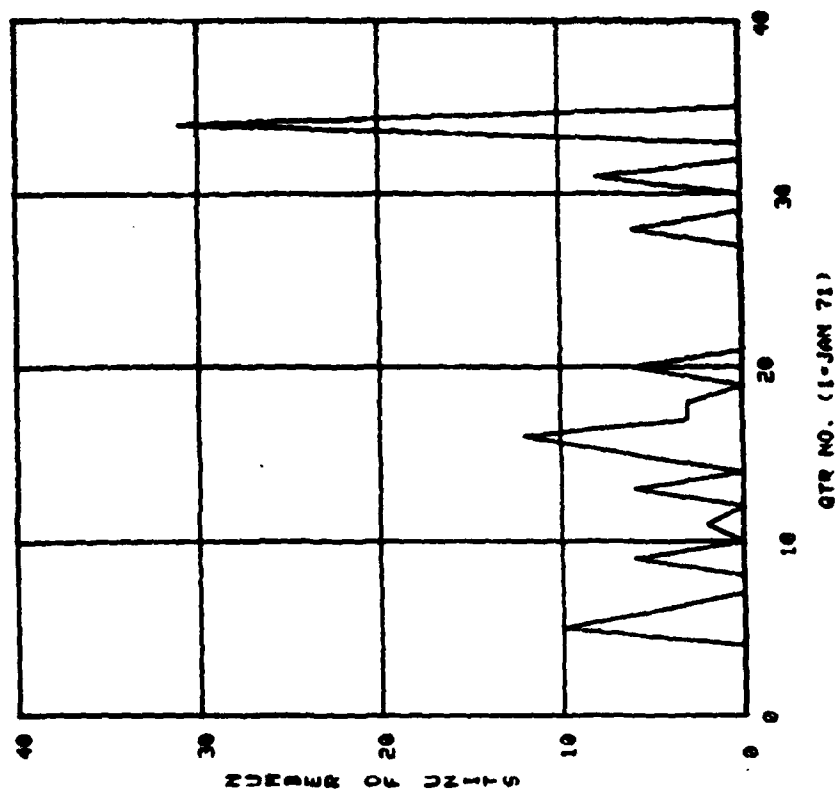
----- GROSS UNIT DEMAND PER QTR
 - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 16
 ALC CB 1270
 PNC 008646572
 NIN EA
 UN CABLE ASSY
 NOUN 2
 NGT 3032 B
 NGT34
 COST 54.08

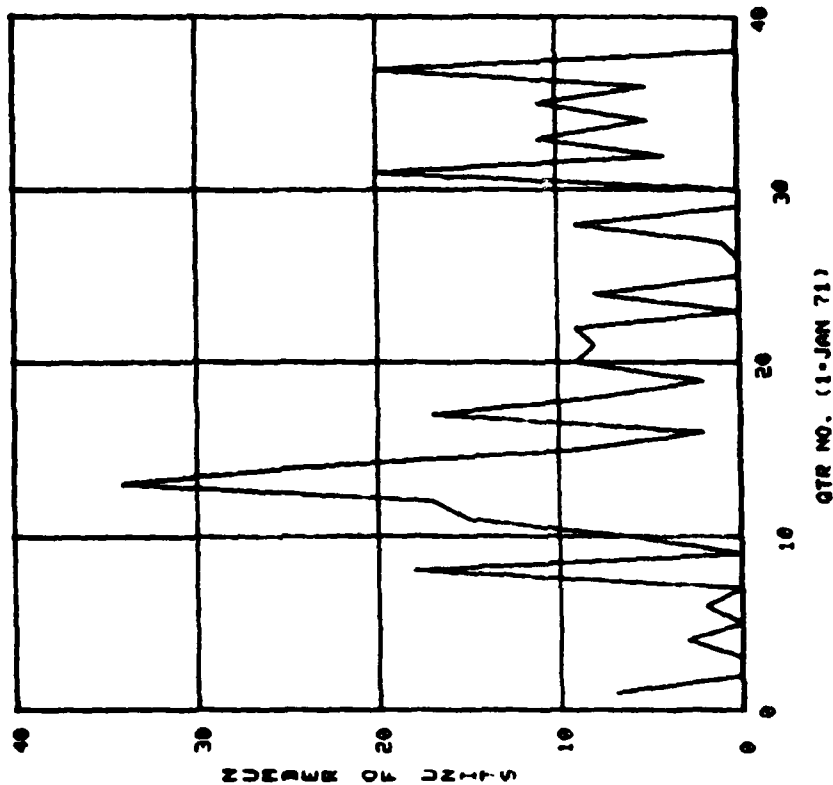
DEMANDS	0	1	2	3	4	5	6	7	8	9	0
0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0

RETURNS
 0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 0



-----	GROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR

ITEM DATA					
NO.		19			
ALC	SM				
MHC	CB	1270			
MIIM		000670722			
UT	EA				
MOUM	PAD				
AGT	Z				
WTGT34	303Z	B	9.76		
COST					
DEMANDS					
0	0	0	0	10	0
5	0	2	0	6	0
3	3	0	6	0	0
0	0	0	6	0	0
0	31	0	0	0	0
RETURNS					
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

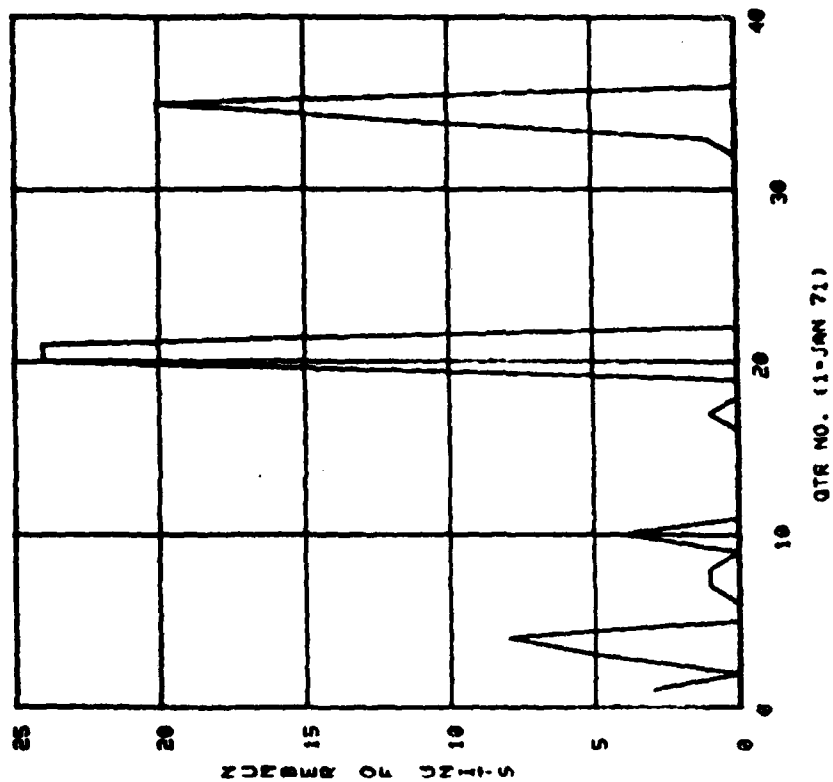


----- GROSS UNIT DEMAND PER QTR
 - - - - UNITS RETURNED BY QTR

ITEM DATA

NO. 21
 ALC SH CB 1270
 MNC 008878574
 NIIM EA
 UN GEAR SPUR
 MOUM 2
 MGT 3032 B 26.83
 MTGT34
 COST

DEMANDS	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RETURNS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



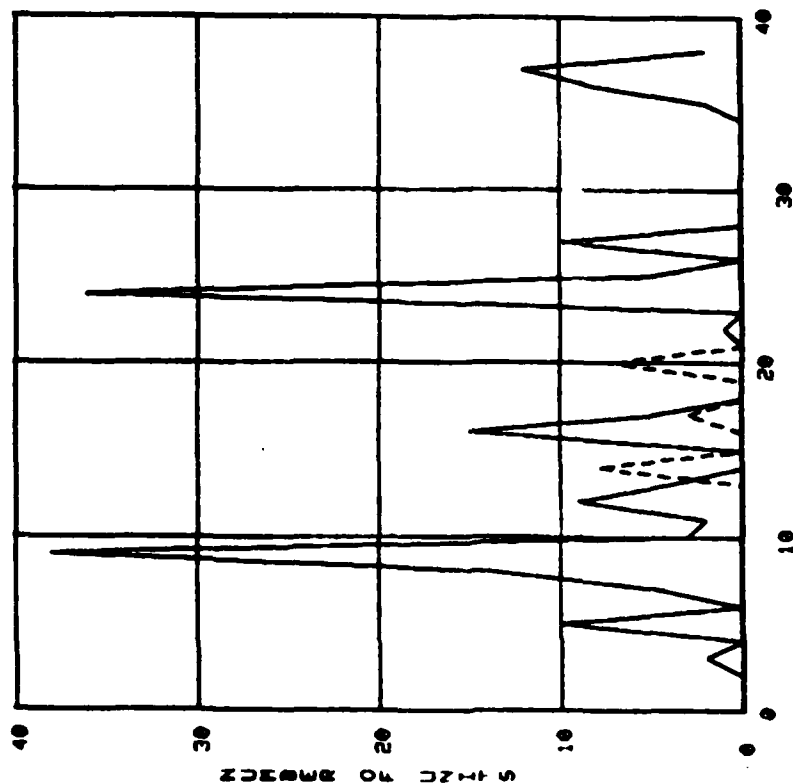
-----	GROSS UNIT DEMAND PER QTR
- - - -	UNITS RETURNED BY QTR

ITEM DATA

NO. 22
ALC SN
MVC CB 1270
NIIN 009020546
UN EA
NOUN SPARK GAP
MGT 2
PTGT34 3032 B
COST 66.40

[illegible]

SECRET



QTR NO. (1-JAN 71)

	-----	GROSS UNIT DEMAND PER QTR
	- - - -	UNITS RETURNED BY QTR
1		
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100		

ITEM DATA

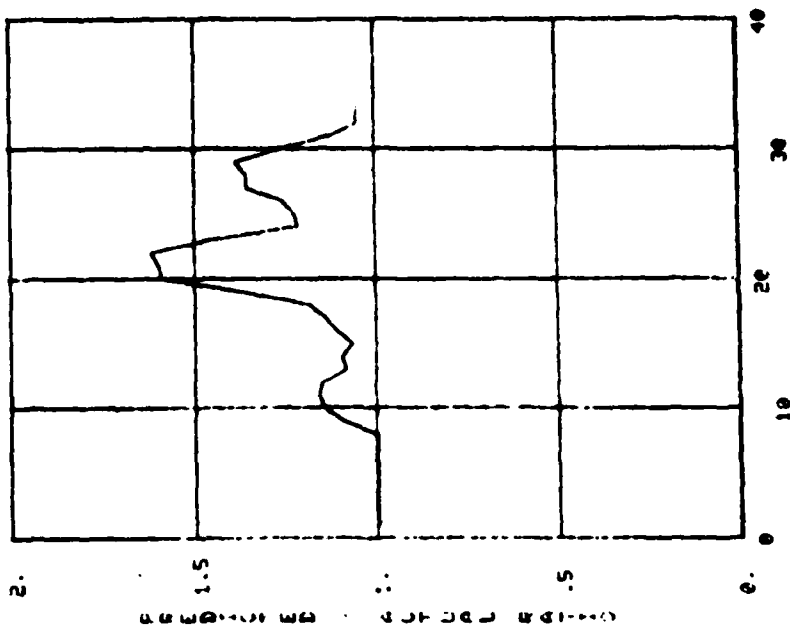
NO.	23
ALC	SN
MMC	CB 1270
NIIM	009914527
UN	EA
NOUN	FILTR LITE
AGT	2
RTG134	303Z B
COST	57.58

DEMANDS

14530
5000
0010
1000
0300
2300
0300
3355

RETURNS

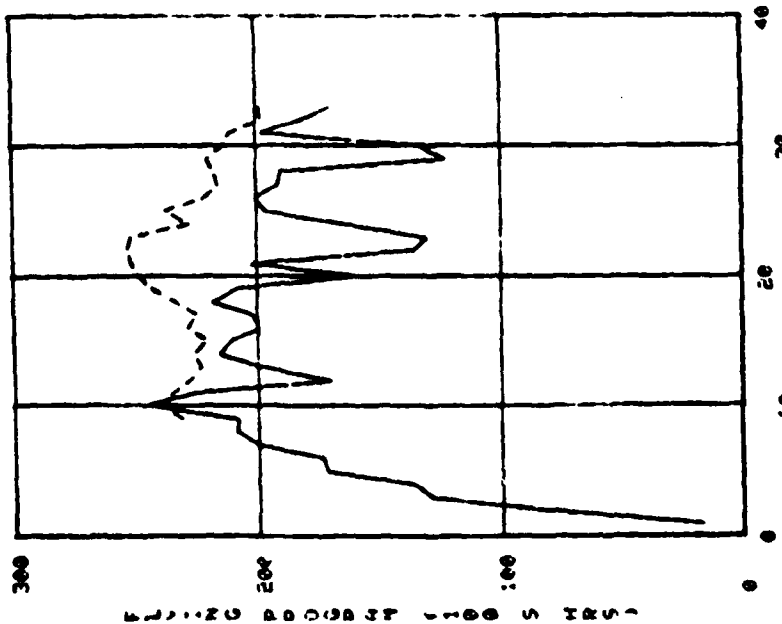
00000
 00000
 000000
 000000
 000000
 000000
 000000
 000000



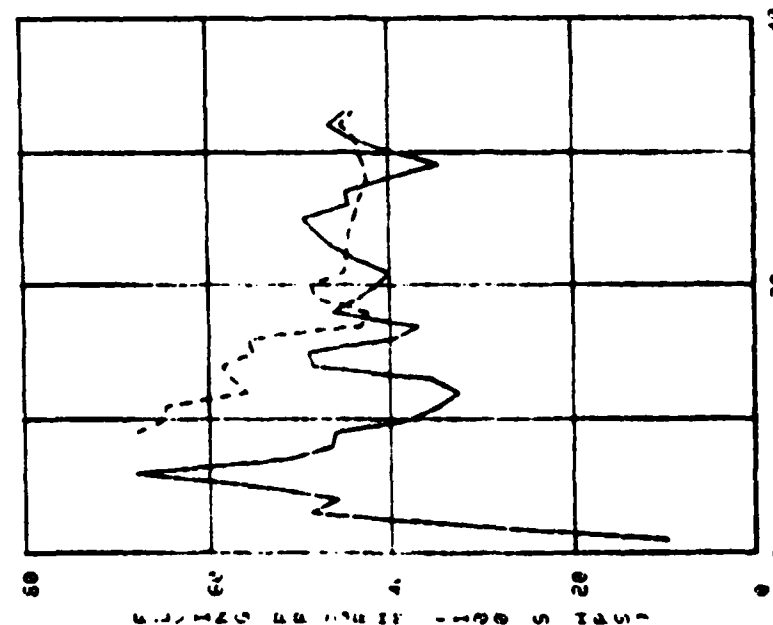
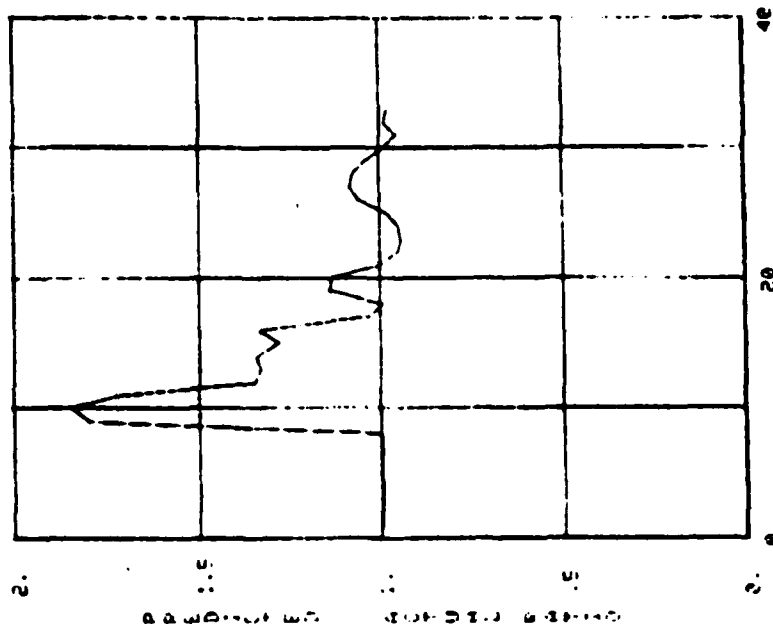
QUARTER NUMBER, WHERE 1 - JAN 71

FILE

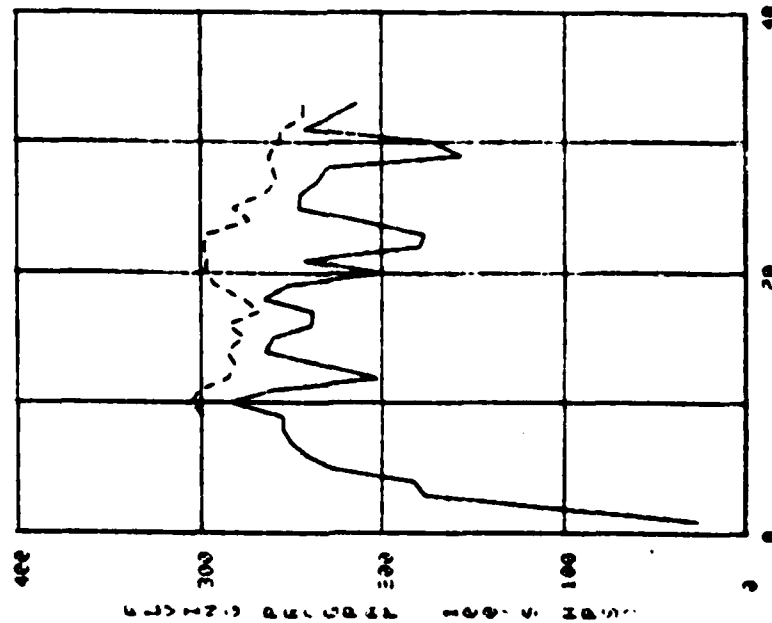
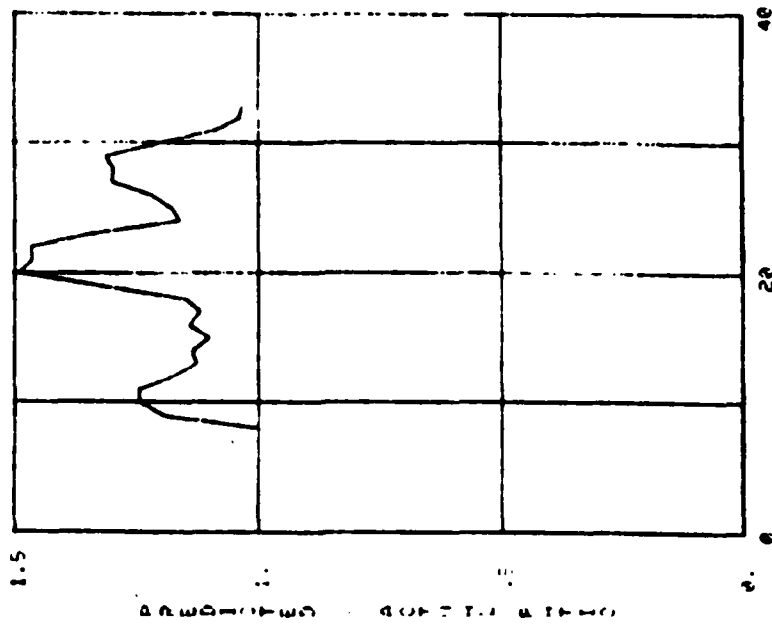
FLYING PROGRAM FOR CV 71 - 80



QUARTER NUMBER, WHERE 1 - JAN 71



FBIS
FLYING PROGRAM FOR 71 - 80

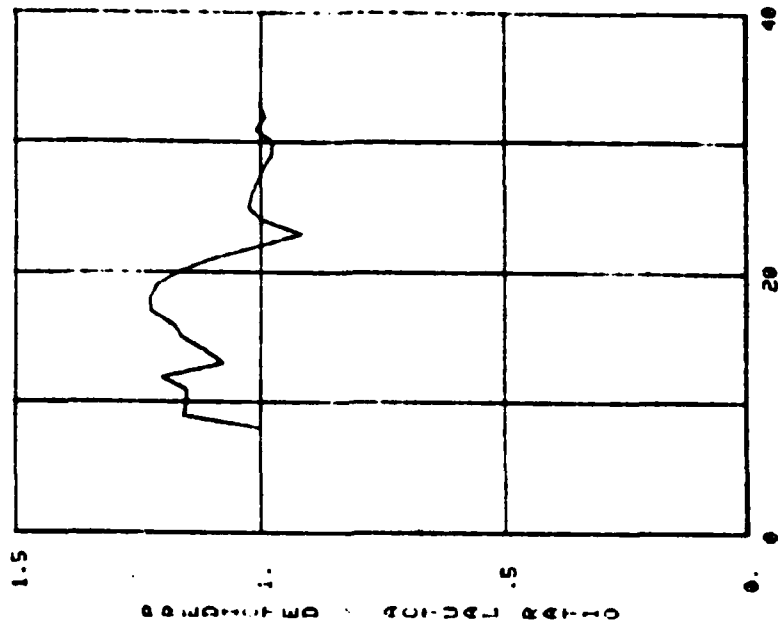


QUARTER NUMBER, WHERE 1 = JAN 71

7F118

FLYING PROGRAM FOR 71 - 80

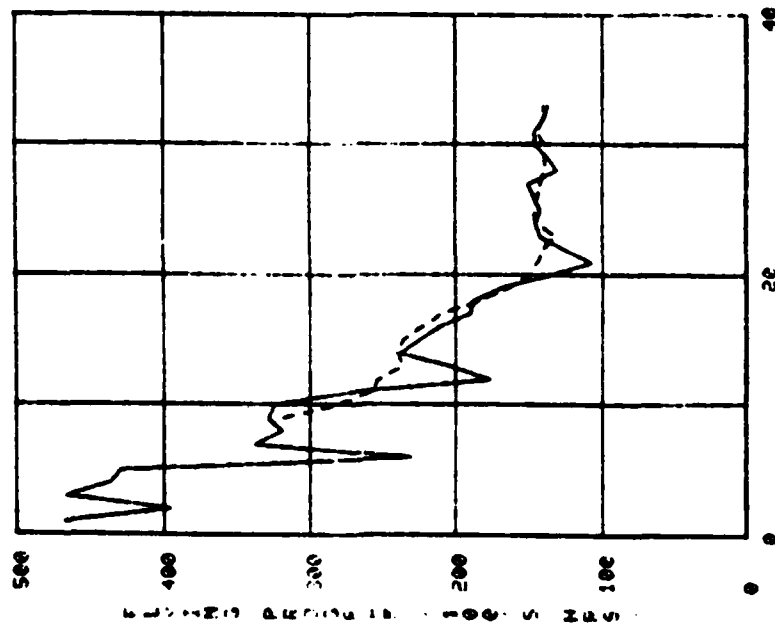
ITEM DATA		44
NO.	SN	
ALC	BR	1560
WTC	000180760	
NIN	EA	
UT	SHAFT	
MOUN	2	
NGT	3242	B
WTGT34		162.03
COST		



QUARTER NUMBER, WHERE 1 - JAN 7:

T33

FLYING PROGRAM FOR CY 71 - 80



QUARTER NUMBER, WHERE 1 - JAN 7:

APPENDIX J

Fortran Source Listings

```

2790*ITMPLT.S
2800**RUN=1INVR/OBJ/ITMPLT.O(BCD,NOGO)
2810*ITMPLT.S
2820      SUBROUTINE ITMPLT(IPLT)
2830C
2840C      DO TEXT PLOT OF 10002 ITEM DEMAND
2850C
2860      PARAMETER NOGO=38
2870      COMMON/IDEMND/IDEMND(1,NOGO)
2880      COMMON/IRETUR/IRETUR(1,NOGO)
2890      COMMON/UCOST/UCOST(1)
2900      COMMON/FSN/ALC,FSN(4),UM,NOUN(2),MGTCD(4),IOH,IOB,IPPL,IPPPR
2910      CHARACTER ALC,FSN,UM,NOUN,MGTCD
2920      DIMENSION XX(80),YY(80)
2930      DIMENSION PTS(4)
2940      CHARACTER OPTS*4(4)
2950C
2960C      RECORD DATA POINTS FOR PLOT
2970C
2980      NPTS=38
2990      CALL USTART
3000      DO 120 I=1,38
3010C
3020      XX(I)=FLOAT(I)
3030      YY(I)=FLOAT(IDEMND(1,I))
3040      XX(I+NPTS)=XX(I)
3050      YY(I+NPTS)=IRETUR(1,I)
3060      120 CONTINUE
3070C
3080C      PRINT ITEM DATA ON RIGHT MARGINS
3081      CALL UALPHA
3082      CALL UAIN(CHAP)
3083C
3090C
3100      WRITE(9,123)IPLT,ALC,FSN,UM,NOUN,MGTCD,UCOST(1)
3110      123  FORMAT(1H1,////////5X,"ITEM DATA",//
3120      "NO.",T10,I6/
3130      "ALC",T10,A6/
3140      "MMC",T10,2A6/
3150      "NOUN",T10,2A6/
3160      "UM",T10,A6/
3170      "NOUN",T10,2A6/
3180      "MGT",T10,2A6/
3190      "MGT 34",T10,2A6/
3200      "COST",T10,F12.2/)
3210C
3220      WRITE(2,143)IDEMND
3230      143  FORMAT(// "DEMANDS"/(1X,815))
3240      WRITE(2,143)IRETUR
3250      143  FORMAT(// "RETURNS"/(1X,815))
3260C

```

```

3270C
3280C          DO PLOT
3290C
3300C
3310C          PREPARE FOR GRAFIKS WITH FORTRAN I/O
3320C
3330C
3360C
3370          CALL USET("DEVICE")
3380          CALL USET("PERCENTUNITS")
3390          CALL UDAREA(40.,90.,20.,90.)
3400C
3410          CALL UPSET("XLABEL","QTR NO. (1=JAN 71)\")
3420          CALL UPSET("YLABFL","NUMBER OF UNITS\")
3430          CALL USET("XBOTHLABELS")
3440          CALL USET("YBOTHLABELS")
3450C
3460          CALL USET("GRIDAXES")
3470          OPTS(1)="LINE"
3480          OPTS(2)="DASH"
3490          OPTS(3)="DASH"
3500          OPTS(4)="DASH"
3510          CALL UPSET("SEIDASH",32.)
3520          PTS(1) = NPTS
3530          PTS(2) = NPTS
3540          PTS(3) = NPTS
3550          PTS(4) = NPTS
3560C
3570          CALL UPRINT(50.,10., "----- GROSS UNIT DEMAND PER QTR")
3580          CALL UPRINT(50.,8., " - - - - UNITS RETURNED BY QTR")
3590          CALL UPLOT(XX,YY,2.,PTS,OPTS)
3600C
3610C          RETURN TO ALPHANUMERIC MODE
3620C
3630          CALL UAIN(CHAR)
3640          CALL UALPHA
3650          CALL UEND
3660C
3670 9999 CONTINUE
3680          RETURN
3690          END

```

**E
ED**